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PHYSICAL OCEANOGRAPHY REPORT
STD DATA FROM
DRIFTING ICE STATION FRAM I

by T. O. Manley, Werner Tiemann and Kenneth Hunkins

TECHNICAL REPORT
LDGO-83-2

Department of the Navy
Office of Naval Research
Contract N00014-76-C-0004

September 1983

LAMONT-DOHERTY GEOL. OBS.
ARCTIC OCEANOGRAPHY

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Abstract

From April 29, 1979 to May 6, 1979 a total of 88 casts were made with a CTD (Conductivity, Temperature and Depth) instrument at the drifting ice station Fram I. Profiles were taken at least twice a day from the surface to 700 m and at more closely spaced intervals during special phases of the experiment. A separate helicopter C/STD survey was also conducted during the experiment and the resulting data were reported separately.

Data obtained from the camp-based Plessey 9040 CTD were simultaneously recorded digitally on magnetic tape and on analog charts. Profile data from the digital tapes were smoothed using a running average. Response time of the temperature sensor was corrected for thermal lag by varying a lag constant (τ) until descending and ascending parts of the cast on a T-S diagram were nearly congruent. No lag correction was applied to the conductivity data because of the rapid response time of the conductivity cell. A small drift that occurred when both sensors were stopped for bottle sampling was also taken into account during data reduction.

Static calibration of the temperature, conductivity and depth sensors was provided by bottle and reversing thermometer data. Least squares, best-fit polynomials, whose parameters were temperature (T), conductivity (C) and depth (D), converted the observed data to final data.

Standard level listings of temperature, potential temperature, salinity, sigma-t, specific volume anomaly, dynamic height and sound velocity are given for each cast along with plotted profiles of temperature, salinity and sigma-t. Nested profiles of temperature and salinity are also provided.

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Introduction

After completion of the Arctic Ice Dynamics Joint Experiment (AIDJEX) in the Beaufort Sea in 1976 which emphasized ice mechanics in the central pack, scientific interest grew in the eastern Arctic Ocean and the Eurasian Basin within which the waters of the Atlantic Ocean mix with those of the Arctic. Although the ice-free region off the coast of Svalbard in the eastern Arctic Ocean has been sampled frequently, and even the ice covered areas near Greenland have been sampled occasionally, few data have been collected in the Eurasian Basin north of the Fram Strait.

Beginning in 1979, the United States along with Denmark, Norway and Canada began a concerted effort to begin oceanographic and geophysical investigations in this relatively unexplored region of the Arctic Ocean north of Greenland by initiating the Fram series of experiments. These were designed to echo the drift of Fridtjof Nansen's specially designed ship, FRAM, which in 1893 was frozen into the pack ice of the New Siberian Islands and allowed to drift until it broke free of the ice in 1896. During this drift an unprecedented amount of data were collected over the deep ocean of the Eurasian Basin.

Fram I, the first of the four planned U. S. manned ice camps was established on March 11, 1979, at 84°24'N and 6°00'W (Fig. 1). During the next two months, until May 13th when data collection ended, studies in chemical and physical oceanography, low-frequency underwater acoustics, geophysics and the mechanics of wave propogation through sea ice were successfully completed and results of some of these investigations have been published (Kristoffersen, 1979; Hunkins et al., 1979a, b).

It was the goal of the Lamont physical oceanography program to collect data which would help provide insight into the origin and effects of the steep

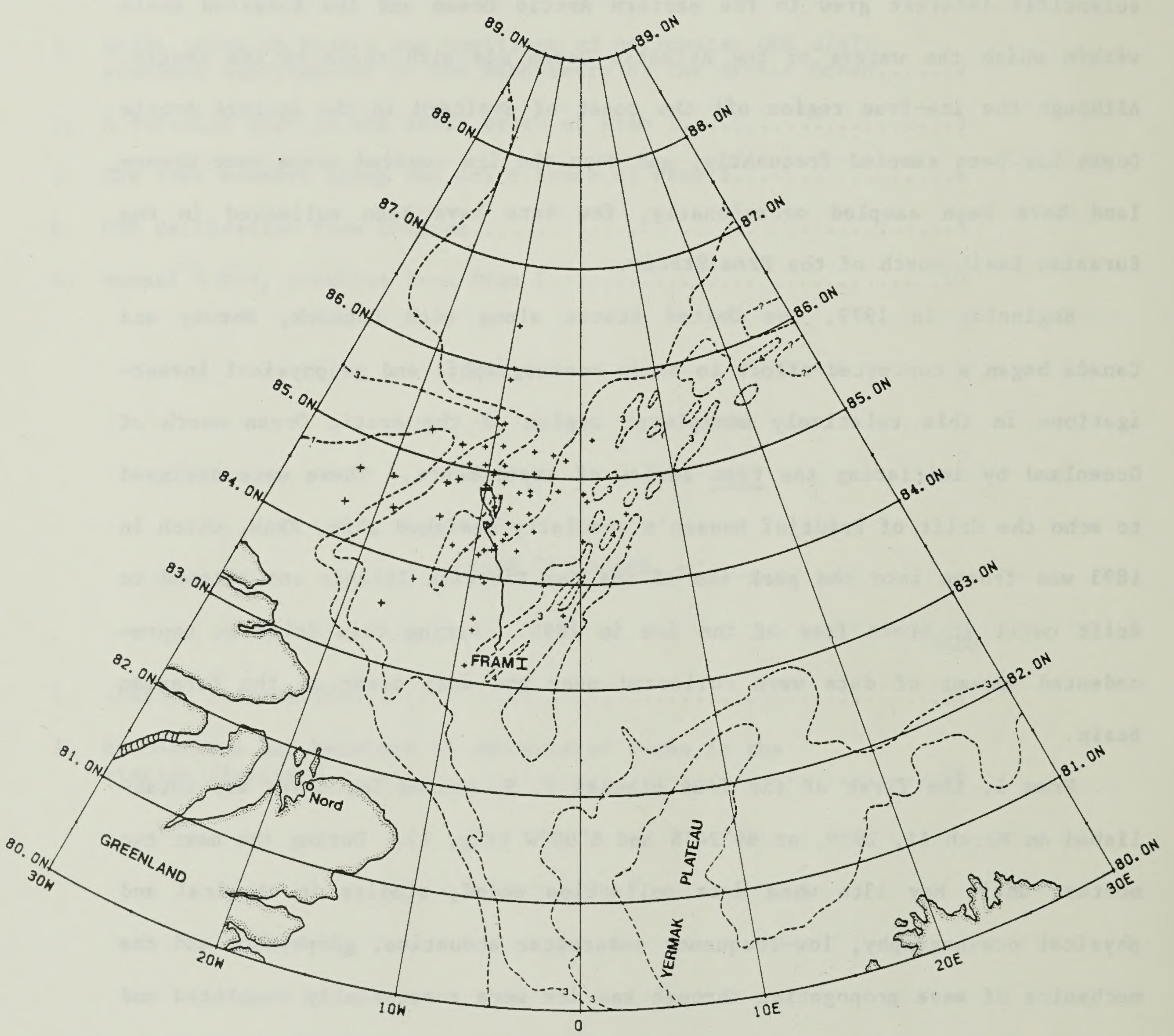

Fig. 1 - Drift track of Fram I and positions of helicopter ODE/C/STD stations superimposed on the bathymetry of the Arctic Ocean.

pycnocline that lies directly beneath the mixed layer (50 m) and the upper extent of the Atlantic water (200 m). Current theory suggests that this pycnocline layer results from the formation of ice during wintertime on the shelves surrounding the Arctic Ocean. The resulting cold, saline shelf water is then later advected into the Arctic Ocean on layers of constant density between 50 m and 200 m. It was also hoped that the program would collect data which might reveal the unique salinity and temperature structures characteristic of the mesoscale eddies reported from the central regions of the Beaufort Sea (Manley, 1981). To accomplish these goals, both helicopter-portable and camp-based CTD's were utilized to collect data.

The area of observations was expanded by using a portable C/STD (Ocean Data Equipment model 202) along with a Bell 204 helicopter to take casts up to 150 km away from the main camp. Nominal sampling depths during these surveys were 270 m. Figure 1 shows the drift track of Fram I and the locations of the portable C/STD stations superimposed on the bathymetry of the Arctic Ocean. Data from these stations currently reside at NODC, and were reported on by McPhee (1980a, b).

The camp-based CTD (a Plessey model 9040) was used to sample the salinity and temperature structure to a depth of 700 m at least twice a day. During selected times, more frequent observations were taken to gain more information on the variability of fine structure and to provide concurrent observations at those times when the helicopter C/STD was actively taking stations. This report pertains only to this camp-based data.

Physical Oceanography Program

Upon completion of the basic operations of establishing camp, a 1 1/2 m by 1 1/2 m hydrohole through which the CTD would be lowered was cut through the 2 m thick ice floe. An small heated hut was then constructed over the hydrohole. The CTD, a small gas-powered winch holding 750 m of cable and associated electronic equipment were then assembled inside the hut as an integrated unit.

A General Oceanics rosette system holding 12 Niskin bottles was also used with the CTD in order to obtain water samples and reversing thermometer data. Water samples taken during the experiment were later analyzed in a single batch using a Guildline Model 8000 salinometer. Originally, the salinometer was located in the CTD hut, but because heat generated from the gas powered winch caused large ambient temperature fluctuations and made it difficult to maintain the water bath temperature in the instrument, the salinometer was moved to another hut which provided the necessary environment for proper operation.

A minimum of two CTD casts were conducted each day to a nominal depth of 700 m. More casts were taken 1) if interesting features within the water column were observed, or 2) to supply concurrent information at the camp when the helicopter C/STD was on a survey. Data pertaining to each cast were recorded digitally as well as on an x-x-y analog chart recorder. Camp-based CTD stations were abruptly terminated when a sheet of ice from a nearby lead unexpectedly underthrust and closed off the hydrohole toward the end of the experiment. At that time a total of 88 casts had been taken at Fram I. The sensor unit was being lowered when the hole was closed and considerable effort was necessary to extricate it. Although the instrument was finally recovered without damage, the hole was unusable. Figure 2 shows a more detailed plot of the drift track of Fram I, and Figure 3 shows the positions of the casts and their numbers along the drift track.

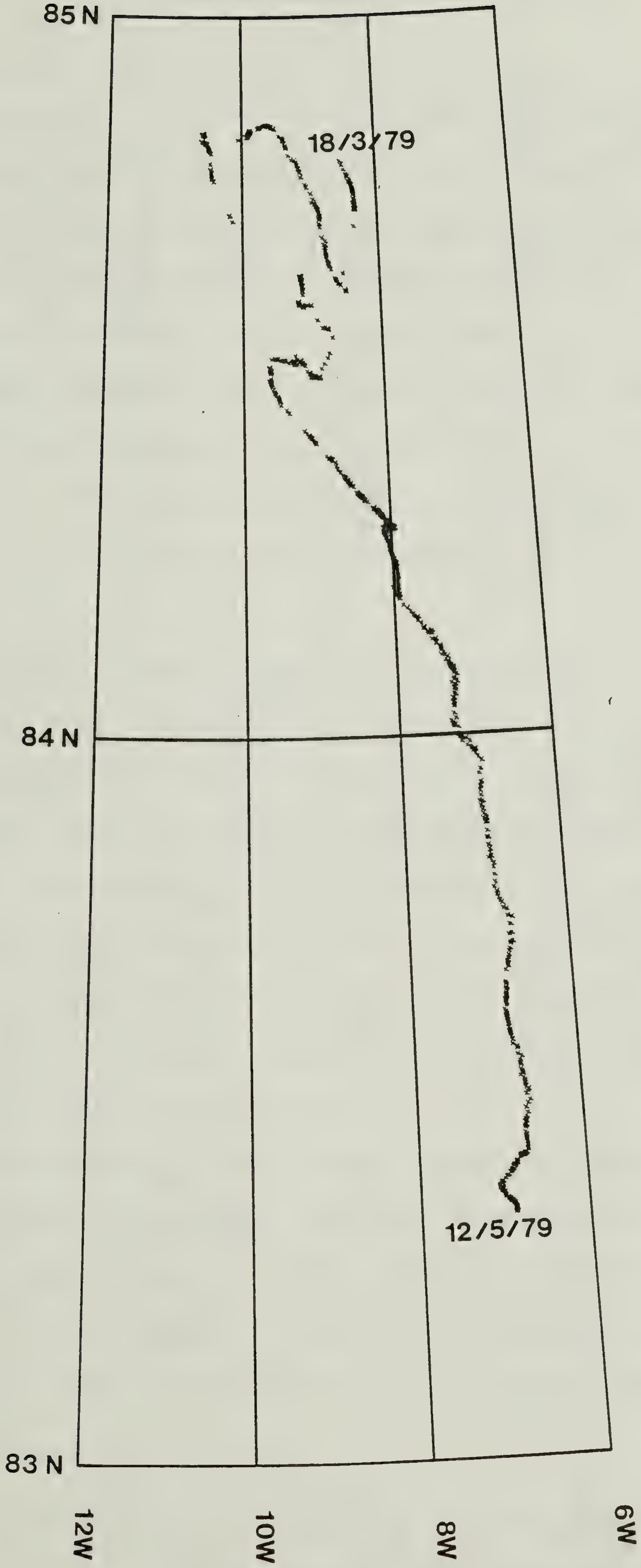

Fig. 2 - A detailed plot of the drift track of Fram I.

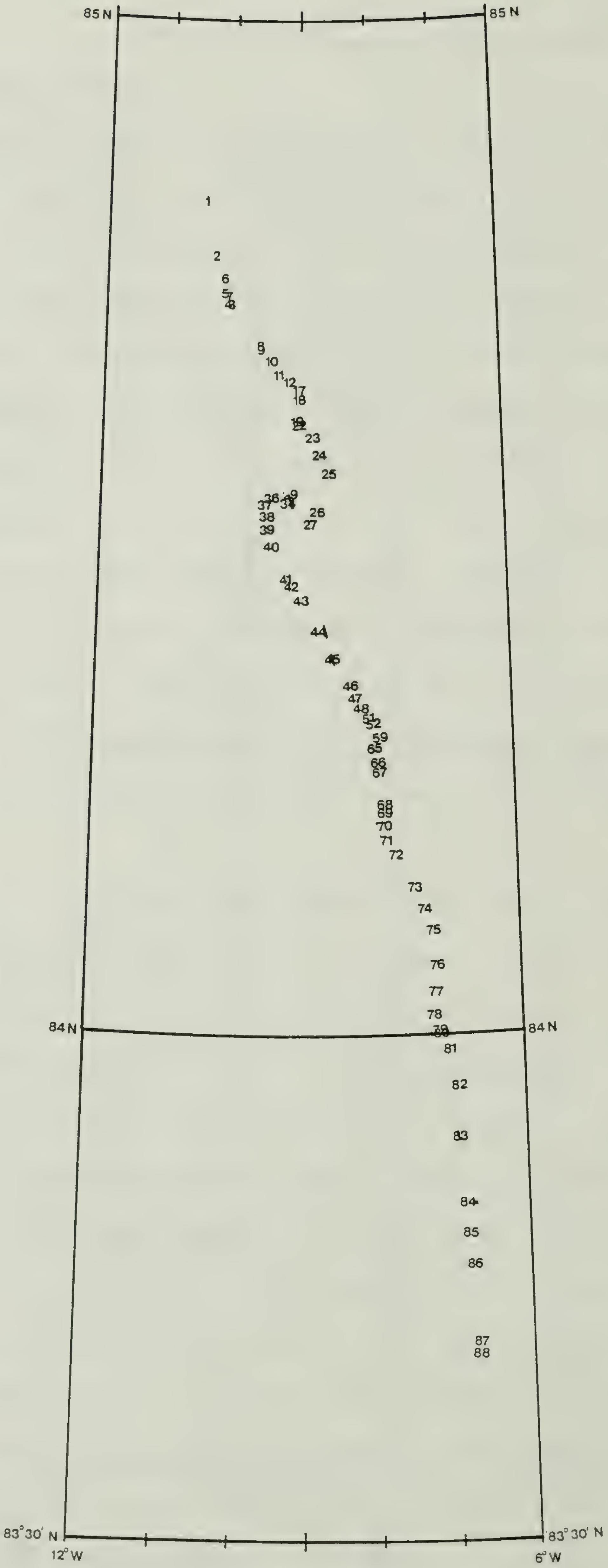

Fig. 3 - CTD cast numbers along the drift track of Fram I.

Dynamic Calibration

Figure 4 shows the flow of the CTD data processing stages. Initial screening of the raw data to remove spikes and discontinuities was done by computer so as to keep the data in a time series to correct for temperature lag. Bad data were either replaced by interpolated data or, if extensive, the time series was terminated and restarted when good data were again available. Thus, some gaps appear. Smoothing was done by applying a 3-point running mean to the temperature and salinity data and a 7-point running mean to the depth data. The larger depth window was chosen because of the relation between digital resolution of the depth channel (0.3 m) and the slowest lowering rate.

In general, the dynamic response characteristics of a CTD sensor depend primarily on the time constant of the temperature compensation probe since that of the conductivity cell is negligable by comparison. In practice, however, although the probe constant for the model 9040 CTD is quoted as 0.35 seconds by the manufacturer, analysis of output data by different investigators using different methods has yielded estimates ranging from about 0.2 to 3.0 seconds. (Scarlet, 1975; Goulet and Culverhouse, 1972). Apparently, a certain variability can also result when the same method is applied to different sensors under different conditions.

The bias associated with the dynamic response of individual sensors is, in fact, detectable and a method which aims at compensation has been incorporated in the data reduction procedure. The screened, smoothed raw data are retained as an evenly spaced time-series in conductivity, temperature and depth (C, T, D) so that the time-rate-of-change of sensed temperatures ($\partial T/\partial t$) can be computed.

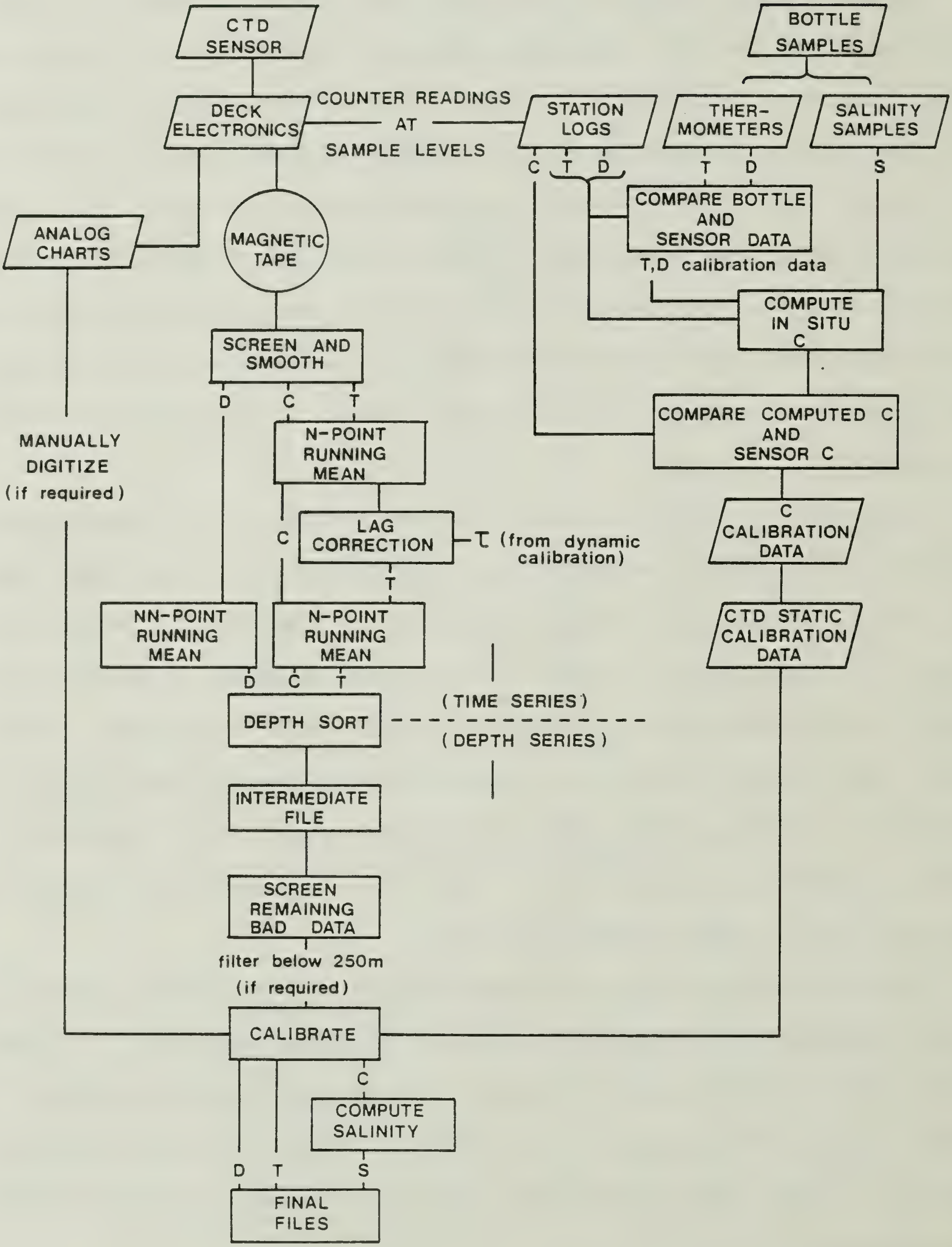

Fig. 4 - CTD Calibration Flow Diagram.

A correction for the time response lag of the temperature sensors is then applied to temperature before the series is sorted for increasing depth. The correction is based on the assumption (suggested by Scarlet, [1975]) that response is exponential with a time constant, τ, such that

$$T' = T + \tau \frac{\partial T}{\partial T} \qquad (1)$$

where T and T' are the sensed and corrected parameters, respectively. The major source of error is in the computing of $\partial T/\partial t$. DDL (digital data logger) resolution in temperature is ± .003°C but this may be degraded somewhat by noise. However, careful consideration of the sample rate and the range for smoothing and computing the temperature slope can give a workable computer approximation of equation 1. Once the correction model is established, we can return to the data for an estimate of what τ should be.

A typical STD profile of the water column in the Fram I area is shown in Figure 5. The trace is relatively free of the "spiking" normally associated with accelerations of a ship's motion and rapid drop rates of a ship-launched cast. What is usually produced, however, is an apparent offset, primarily in salinity, which is related to the response lag of the temperature sensor and which is sustained until the temperature gradient subsides. Dantzler (1974) in particular has pointed out the importance of this kind of systematic error. A typical raw data printout will show the onset of an interface as two distinct events, one in conductivity and then one in temperature lagging one or more scan intervals behind. (Scan intervals were generally 0.5 sec; occasionally 0.1 or 1.0 sec.). Downtrace and uptrace T-S diagrams of the same profile were compared for a number of stations while the time constant τ was adjusted so as to minimize the offset between traces (Bauer, et. al., 1980a, b, c, d).

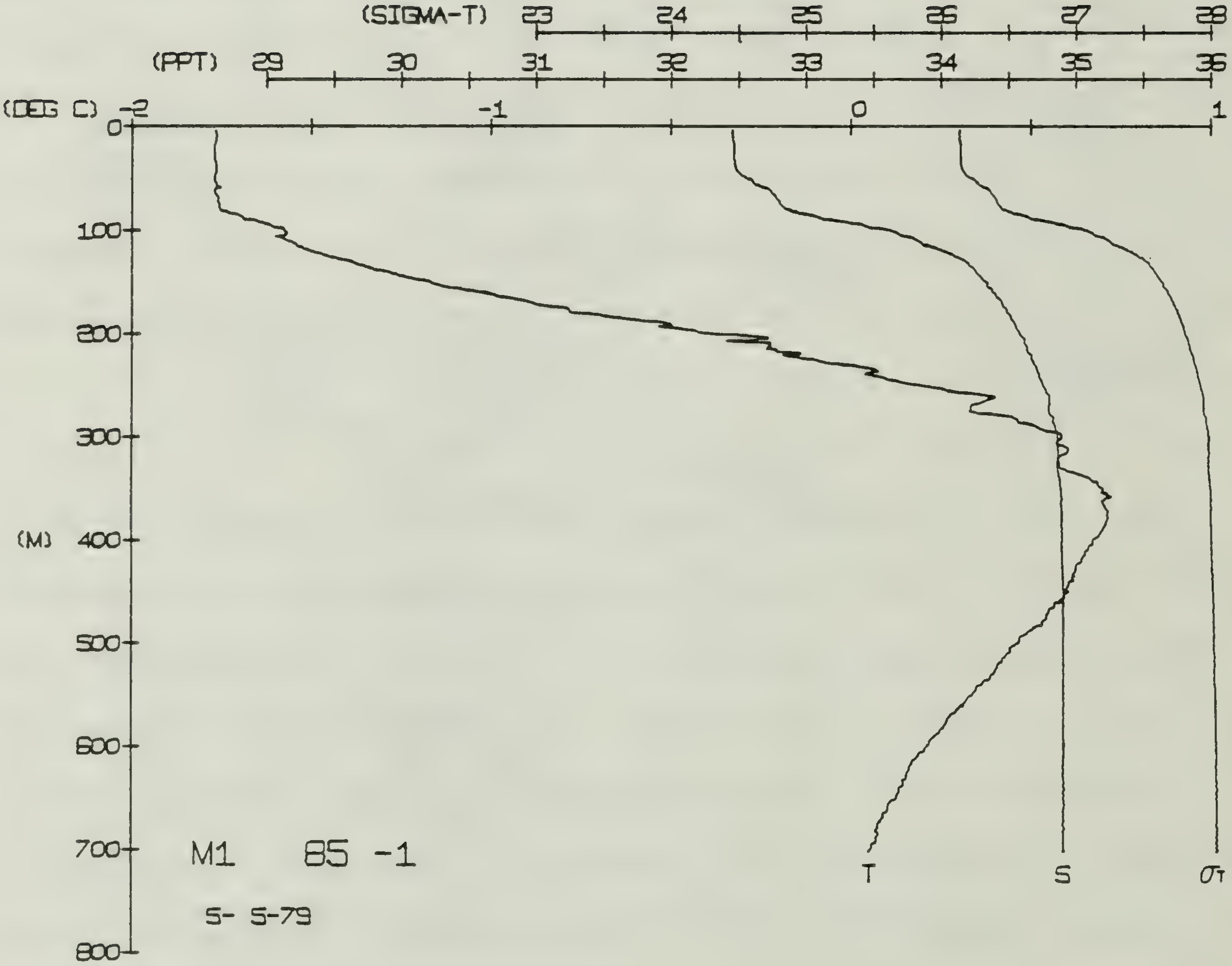

Fig. 5 - Normal S-T-σ_t profiles from Fram I.

This approach is readily implemented as a calibration procedure using a CRT computer terminal to monitor T-S diagrams. The time constant for the correction model is adjusted at selected station intervals in the data set to compensate for observed trends in the sensor response. Results for this instrument indicated a best temperature lag coefficient (τ) to be 0.5 sec which is consistent with the coefficient determined during the AIDJEX Experiment for this instrument (Bauer, et. al., 1980a).

The extent to which the τ value can be interpreted as a valid indication of sensor dynamic response depends, of course, on certain assumptions. The intermediate scale features are regarded as unchanged over the lapse of time (generally one hour) between downtrace and uptrace of any given station. Moreover, short-term changes would cause erratic adjustment of τ, and this is not observed. The assumption that response lag in temperature is the dominant cause of offset between downtrace and uptrace also ignores other kinds of hysteresis and the effect of mixing by movement of the instrument package through the interface. In the case of mixing it might be proposed that the maximum effect occurs on the uptrace when the instrument wake precedes the sensors, entraining saltier water at the interface. The observed offset is toward lower salinity, however, and argues against the significance of this process.

Once the determination of τ was completed, uptraces were eliminated from the data set. As can be seen from equation 1, temperature lag corrections no longer become neccessary as the temperature gradient becomes very small and varies smoothly with depth. Below 400 m temperature lag corrections rarely attain a magnitude of 0.0004°C, and in the vast majority of cases it is less than 0.002°C which is less than the resolution of the DDL temperature and salinity data. As a result, no temperature lag corrections were made below

400 m. It should be stressed, however, in other parts of the Arctic Ocean this step might not be applicable because of the dynamic structure of the temperature gradient above 1000 m.

The time lag corrections were then applied to the smoothed temperature data, and the data then sorted according to increasing depth.

CTD Static Calibration Procedures

Bottle data consisting of protected and unprotected thermometer readings, and salinity determinations from the water taken near the surface, the temperature maximum of the Atlantic Water and the bottom of the cast provided the bulk of the data neccessary for the calibration of the conductivity, temperature and depth sensors. Recorded information pertaining to the output of the three sensors taken from the deck unit at the instant that the instrument was stopped provided the remaining data required for the calibration procedure. The information mentioned above was punched onto computer cards along with their appropriate station identification parameters and stored in the computer. Delta values between the recorded values and the bottle data were then calculated and stored on file along with the original input data.

Preliminary quality control checks were done on the calibration data after it had been stored on file. These checks consisted of looking for the delta values of temperature and depth outside a given tolerance range for each parameter. When data of this type were found, it became neccessary to evaluate the validity of the values on the basis of technical logs and other possible sources of error, such as incorrectly punched input. In the majority of cases, an explanation for the excessive delta values was found and the data were repunched and again submitted to the data set. Of the 5 per cent of the calibration data set that required this special editing, less than 10 per cent of the data points were rejected because of technical problems.

Depth dependency of the various sensors within every calibration period was also calculated using least squares, best-fit polynomials. Their associated standard deviations and plots of the ploynomial against the delta values were the criteria used to determine the polynomial of least degree that would fit the data. In practice, the temperature sensor calibration was found not to be depth-dependent which agrees with previous work done with the Plessey CTD.

Depth, however, was always found to be quadratically depth-dependent. There were special cases for the depth and conductivity sensors where, depending on the number of points, linear to cubic fits were considered the best choice.

At the end of the calibration procedure, there were 3 delta functions for every point in time that would convert intermediate temperature and depth values to final calibrated data as shown in equation 2.

$$S_f = S_i = P_{sn}(d,t) \tag{2}$$

Using the polynomial equations for temperature and depth, it was then possible to calibrate the conductivity sensor.

The problem of conductivity calibration is two-fold: 1) to convert bottle data salinities obtained from the salinometer to in situ conductivities, and 2) to insure continuity between Plessey and salinometer conductivities before comparison.

To convert conductivities derived from salinometer measurements to salinities at the correct temperature and pressure observed by the sensor, the selection of a transfer equation (f), as shown by equation 3, was used:

$$c = f(s,t,p(z)) \tag{3}$$

where c = conductivity

s = precise measurement of salinity (salinometer)

t = actual temperature of water at depth z

p = pressure at depth of observation, z.

All salinity data are currently based on lab salinometer results as computed by the Practical Salinity Scale, 1978.

Bottle data readings were placed in permanent files in the computer as described previously. Final equations for the calibration of temperature and depth were calculated prior to the conductivity calibration procedure; These values were required as input parameters to the reversed Practical Salinity Scale equation to accurately provide the in situ conductivity given the precise values of salinity, temperature and the depth of observation.

Delta values in condutivity were then calculated for all the bottle data in the CTD set. Once the calibration polynomial had been formulated for conductivity, it became a straightforward process to calculate salinity-temperature-depth data from the intermediate CTD data. The order of progression is very important and is as follows:

a) correct temperature to produce final temperature, t_f

b) correct depth to produce final depth, d_f

c) correct conductivity to produce final conductivity, c_f

d) compute salinity with Practical Salinity Scale-78 using t_f, d_f, c_f

Final conductivity values were not saved during the processing and are, therefore, not reported.

Subsequent Processing

Even though conductivity, temperature and depth had been converted into final calibrated data, errors still existed. A combination of several checks involving the plotting of the data in various forms and the sorting of various parameters revealed errors that were previously unnoticed.

The deletion of data while the sensors were in the hydrohole, where the water is unnaturally heated and freshened, and the addition of weather and position information for the individual stations were also a part of this procedure.

T-S diagrams were employed on large groups of stations to show stations which deviated from the mean. Stations that were flagged in this manner were rechecked for validity. If the data turned out to be in error and the error resulted from processing, the station was reworked from the point at which the error occurred.

Nested temperature and salinity traces plotted in this report were also a useful quality control to observe stations that did not follow the mean trends of the other plotted profiles. If a station was considered questionable, the original analog chart was used as the basis for the deletion or acceptance of the profile. Sequential sorting of the recorded dates and times of the stations was also done and stations that were out of order were resubmitted to the data set.

Temperature and salinity values taken while the sensor was in the hydrohole (ice thickness of 2 m) were then removed.

As a final indication of the quality of the salinity and tempeature data, averaged values of the bottle and reversing thermometer at the various sampling depths are shown n the profiles as "x's" and "+'s", respectively.

ACCURACY OF THE DATA

Tests were run to determine the accuracy of the DDL. The bottle data were used as the standard against which the final salinities and temperatures were checked. The final salinity and temperature data were then subtracted from the observed bottle data at the various tripping depths. Mean differences and associated standard deviations for conductivity and temperature were .004 ± .006 and .004 ± .005 respectively.

METEOROLOGY DATA

Periodic surface observations and continuous digital recordings of meteorological sensors at a fixed height above the surface of the ice were maintained at Fram I. From the original data, three-hourly averages of surface barometric pressure, and half-hourly averages of wind speed, and direction at 9.2 meters and air temperature at 7.8 meters above the surface were obtained for Fram I.

Data which were closest in time to each station were recorded along with the station data in permanent files on the computer (blanks implying no data available for that parameter).

POSITION ESTIMATES AND ASSOCIATED ERRORS

Filtered and smoothed estimates for position and velocity through time were computed from the original edited satellite navigation in a similar manner as that of Thorndike and Manley (1980a, b).

Position estimates were not regularly spaced in time nor did they correspond to the starting times of stations; thus reliable estimates of the position and ice velocity, as well as associted errors at the time of the CTD stations were made through quadratic interpolations in the same manner as that described by Manley et. al. (1980a, b, c, d), and Bauer et. al. (1980a, b, c, d). Noramlly, 25 to 30 position fixes were recorded per day, but this could rise to close to 60 and for a period of approximately 2 days the number dropped to zero.

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TABLE 1

STATION INFORMATION

In this section is a brief listing of all the CTD station taken on Fram I along with other pertinent information. A list of the terms and their meanings is shown below:

CAMP	Name of Camp
STAT	CTD Station
MODE	1 implies downtrace
	2 implies uptrace
DAY	Day of Station
MON	Month of Station
YR	Year of Station
TIME	GMT Time of Station
CODE	Processing Code, see Table 2
JULDAY	Julian Day (decimal) of station
D. MIN	Minimum Depth (meters) of station
D. MAX	Maximum Depth reached at station
LATITUDE	Latitude of station in decimal degrees
LONGITUDE	Longitude of station in decimal degrees
	(- indicates west longitude)
LT. ERR	Error of Latitude Position in meters
LG. ERR	Error of Longitude Position in meters

TABLE 1

CAMP	STAT	MODE	DY	MON	YR	TIME	CODE	AJXDAY	D.MIN	D.MAX	LATITUDE	LONGITUDE	LAT.ERR	LNG.ERR
FRAM 1	1	1	29	MAR	79	2200	1	88.9167	3.4	488.2	84.81780	-10.49960	0.9	1.7
FRAM 1	2	1	30	MAR	79	1627	1	89.6854	3.1	700.7	84.76380	-10.35480	1.9	4.5
FRAM 1	3	1	31	MAR	79	1430	1	90.6042	3.0	740.0	84.71570	-10.11870	18.6	34.8
FRAM 1	4	1	1	APR	79	1100	1	91.4583	3.1	697.0	84.71590	-10.16570	0.4	0.6
FRAM 1	5	1	1	APR	79	1707	1	91.7132	3.0	699.2	84.72760	-10.22350	10.1	29.3
FRAM 1	6	1	2	APR	79	740	1	92.3194	3.1	697.4	84.74100	-10.23260	98.5	119.5
FRAM 1	7	1	2	APR	79	1807	1	92.7549	3.1	700.4	84.72350	-10.15390	1.0	2.0
FRAM 1	8	1	3	APR	79	1707	1	93.7132	3.1	701.6	84.67460	-9.68330	35.5	62.7
FRAM 1	9	1	3	APR	79	1835	1	93.7743	3.1	704.4	84.67160	-9.65810	0.0	0.0
FRAM 1	10	1	4	APR	79	700	1	94.2917	3.0	700.1	84.66010	-9.55170	14.8	26.9
FRAM 1	11	1	4	APR	79	1837	1	94.7757	3.1	701.3	84.64720	-9.42350	0.3	0.4
FRAM 1	12	1	5	APR	79	700	1	95.2917	3.0	702.0	84.63870	-9.28230	9.5	13.6
FRAM 1	13	1	5	APR	79	1835	1	95.7743	3.1	702.4	84.63640	-9.25050	105.6	123.6
FRAM 1	14	1	6	APR	79	707	1	96.2965	3.0	702.4	84.63750	-9.18400	0.0	0.0
FRAM 1	15	1	6	APR	79	1833	1	96.7729	3.0	836.4	84.63830	-9.14560	1.1	2.2
FRAM 1	16	1	7	APR	79	654	1	97.2875	3.1	700.1	84.63660	-9.14750	1.1	2.1
FRAM 1	17	1	7	APR	79	1903	1	97.7937	3.0	698.3	84.63240	-9.13860	0.1	0.1
FRAM 1	18	1	8	APR	79	707	1	98.2965	3.0	699.9	84.62210	-9.13200	0.7	1.2
FRAM 1	19	1	8	APR	79	1933	1	98.8146	3.1	700.6	84.60230	-9.17850	0.0	0.0
FRAM 1	20	1	9	APR	79	725	1	99.3090	3.0	702.3	84.60060	-9.18140	0.7	1.3
FRAM 1	21	1	9	APR	79	1923	1	99.8076	3.0	699.8	84.59770	-9.16760	0.0	0.0
FRAM 1	22	1	10	APR	79	700	1	100.2917	3.1	699.0	84.59650	-9.12510	0.8	1.5
FRAM 1	23	1	10	APR	79	1821	1	100.7646	3.0	700.0	84.58560	-8.94720	39.8	81.8
FRAM 1	24	1	11	APR	79	707	1	101.2965	3.0	699.4	84.56900	-8.83930	11.8	17.9
FRAM 1	25	1	11	APR	79	1837	1	101.7757	3.0	700.9	84.54990	-8.68970	1.1	2.2
FRAM 1	26	1	12	APR	79	702	1	102.2931	3.0	699.9	84.51190	-8.86660	1.2	2.8
FRAM 1	27	1	12	APR	79	1848	1	102.7833	3.1	698.3	84.49720	-8.96970	0.4	0.6
FRAM 1	28	1	13	APR	79	704	1	103.2944	3.0	698.5	84.51610	-9.12200	0.0	0.0
FRAM 1	29	1	13	APR	79	1834	1	103.7736	3.0	702.0	84.52840	-9.26130	2.2	5.3
FRAM 1	30	1	14	APR	79	724	1	104.3083	3.1	698.5	84.52360	-9.25870	12.4	30.1
FRAM 1	31	1	14	APR	79	1828	1	104.7694	3.0	698.9	84.52130	-9.25090	0.1	0.1
FRAM 1	32	1	15	APR	79	928	1	105.3944	3.1	699.5	84.51870	-9.24200	0.5	0.8
FRAM 1	33	1	15	APR	79	1830	1	105.7708	3.1	699.3	84.51860	-9.24590	0.2	0.3
FRAM 1	34	1	16	APR	79	706	1	106.2958	3.0	701.7	84.51780	-9.24860	1.1	2.2
FRAM 1	35	1	16	APR	79	1817	1	106.7618	3.0	699.6	84.52010	-9.33470	0.0	0.0
FRAM 1	36	1	17	APR	79	709	1	107.2979	3.1	706.8	84.52540	-9.53560	1.0	2.3
FRAM 1	37	1	17	APR	79	1837	1	107.7757	3.1	699.5	84.51830	-9.63510	1.9	4.7
FRAM 1	38	1	18	APR	79	716	1	108.3028	3.0	699.8	84.50560	-9.60180	0.9	1.7
FRAM 1	39	1	18	APR	79	1837	1	108.7757	3.1	699.5	84.49410	-9.61110	0.3	0.5
FRAM 1	40	1	19	APR	79	708	1	109.2972	3.1	698.0	84.47720	-9.54600	0.6	1.0
FRAM 1	41	1	19	APR	79	1901	1	109.7924	3.0	337.9	84.44500	-9.31250	0.0	0.0
FRAM 1	42	1	19	APR	79	2214	1	109.9264	3.0	700.1	84.43800	-9.25140	24.9	47.6
FRAM 1	43	1	20	APR	79	647	1	110.2826	3.1	700.3	84.42330	-9.12070	12.2	37.1
FRAM 1	44	1	20	APR	79	1901	1	110.7924	3.1	699.7	84.39360	-8.86880	22.7	40.3
FRAM 1	45	1	21	APR	79	705	1	111.2951	3.1	699.3	84.36600	-8.65880	0.4	0.5
FRAM 1	46	1	21	APR	79	1831	1	111.7715	3.0	700.4	84.33790	-8.43450	0.3	0.5
FRAM 1	47	1	22	APR	79	710	1	112.2986	3.1	699.1	84.32670	-8.33740	0.2	0.3
FRAM 1	48	1	22	APR	79	1842	1	112.7792	3.0	701.0	84.31660	-8.25220	32.2	58.6
FRAM 1	49	1	23	APR	79	705	1	113.2951	3.0	699.8	84.31670	-8.23070	4.0	12.0
FRAM 1	50	1	23	APR	79	1906	1	113.7958	3.0	699.0	84.31310	-8.17760	3.6	10.7
FRAM 1	51	1	24	APR	79	714	1	114.3014	3.0	699.3	84.30760	-8.13800	0.0	0.0
FRAM 1	52	1	24	APR	79	1724	1	114.7250	3.1	693.2	84.30240	-8.08770	1.0	1.9
FRAM 1	53	1	25	APR	79	1140	1	115.4861	3.1	699.5	84.29220	-8.01620	1.1	2.1
FRAM 1	54	1	25	APR	79	1316	1	115.5528	3.0	325.9	84.29150	-8.00860	1.1	2.0
FRAM 1	55	1	25	APR	79	1430	1	115.6042	3.1	224.1	84.29260	-8.01180	0.0	0.0
FRAM 1	56	1	25	APR	79	1605	1	115.6701	3.0	282.1	84.29460	-8.01320	12.5	37.4
FRAM 1	57	1	25	APR	79	1648	1	115.7000	3.0	254.7	84.29430	-8.01070	5.7	15.5
FRAM 1	58	1	25	APR	79	1734	1	115.7319	3.1	245.0	84.29180	-8.00750	0.3	0.4
FRAM 1	59	1	25	APR	79	1858	1	115.7903	3.0	703.2	84.28500	-8.00400	0.7	1.0
FRAM 1	60	1	26	APR	79	705	1	116.2951	3.2	699.2	84.28940	-7.97560	0.8	1.4
FRAM 1	61	1	26	APR	79	1337	1	116.5674	3.1	260.7	84.28790	-7.95070	0.7	1.3
FRAM 1	62	1	26	APR	79	1850	1	116.7847	3.1	705.5	84.28300	-7.98300	0.9	1.8
FRAM 1	63	1	27	APR	79	759	1	117.3326	3.0	700.2	84.29090	-8.05220	1.1	2.1
FRAM 1	64	1	27	APR	79	1925	1	117.8090	3.0	698.6	84.28890	-8.08900	1.1	2.1
FRAM 1	65	1	28	APR	79	719	1	118.3049	3.1	699.2	84.27800	-8.07500	0.0	0.0
FRAM 1	66	1	28	APR	79	1300	1	118.5417	3.0	696.9	84.26490	-8.02790	0.2	0.3
FRAM 1	67	1	28	APR	79	1836	1	118.7750	3.1	702.3	84.25480	-8.00890	0.9	1.6
FRAM 1	68	1	29	APR	79	1300	1	119.5417	3.0	698.0	84.22280	-7.93890	0.0	0.0
FRAM 1	69	1	29	APR	79	1857	1	119.7896	3.1	699.4	84.21440	-7.94660	0.9	1.6
FRAM 1	70	1	30	APR	79	715	1	120.3021	3.3	696.7	84.20290	-7.95590	0.2	0.2

TABLE 1 (cont'd)

CAMP	STAT	MODE	DY	MON	YR	TIME	CODE	AJXDAY	D. MIN	D. MAX	LATITUDE	LONGITUDE	LAT. ERR	LNG. ERR
FRAM 1	71	1	30	APR	79	1301	1	120. 5424	3. 0	697. 5	84. 18840	-7. 91530	3. 7	11. 3
FRAM 1	72	1	30	APR	79	1912	1	120. 8000	3. 0	696. 9	84. 17390	-7. 78710	0. 7	1. 2
FRAM 1	73	1	1	MAY	79	707	1	121. 2965	3. 1	697. 4	84. 14240	-7. 53610	0. 4	0. 7
FRAM 1	74	1	1	MAY	79	1254	1	121. 5375	3. 1	698. 8	84. 12040	-7. 39980	0. 0	0. 0
FRAM 1	75	1	1	MAY	79	1900	1	121. 7917	3. 1	704. 1	84. 09910	-7. 30650	0. 8	1. 5
FRAM 1	76	1	2	MAY	79	726	1	122. 3097	3. 0	699. 2	84. 06440	-7. 24610	0. 8	1. 4
FRAM 1	77	1	2	MAY	79	1338	1	122. 5681	3. 1	697. 8	84. 03900	-7. 27010	0. 2	0. 3
FRAM 1	78	1	2	MAY	79	1906	1	122. 7958	3. 0	699. 1	84. 01570	-7. 29970	0. 4	0. 7
FRAM 1	79	1	3	MAY	79	705	1	123. 2951	3. 1	698. 1	84. 00120	-7. 24980	1. 1	2. 2
FRAM 1	80	1	3	MAY	79	1008	1	123. 4222	3. 1	315. 7	83. 99740	-7. 22190	1. 1	2. 1
FRAM 1	81	1	3	MAY	79	1911	1	123. 7993	3. 0	698. 5	83. 98120	-7. 07200	0. 9	1. 8
FRAM 1	82	1	4	MAY	79	712	1	124. 3000	3. 0	697. 4	83. 94550	-6. 99270	1. 0	2. 0
FRAM 1	83	1	4	MAY	79	1930	1	124. 8125	3. 0	698. 2	83. 89530	-6. 97640	0. 0	0. 0
FRAM 1	84	1	5	MAY	79	756	1	125. 3306	3. 1	700. 4	83. 83060	-6. 91740	0. 0	0. 0
FRAM 1	85	1	5	MAY	79	1241	1	125. 5285	3. 1	700. 1	83. 80080	-6. 87830	1. 1	2. 1
FRAM 1	86	1	5	MAY	79	1828	1	125. 7694	3. 1	704. 0	83. 77000	-6. 83570	0. 4	0. 6
FRAM 1	87	1	6	MAY	79	703	1	126. 2938	3. 0	698. 6	83. 69410	-6. 76730	0. 0	0. 0
FRAM 1	88	1	6	MAY	79	925	1	126. 3924	3. 1	250. 3	83. 68280	-6. 78740	1. 1	2. 2

OUTPUT FORMAT OF FINAL DATA

This report contains salinity and temperature profile data from surface to 700 m taken at drifting ice station Fram I with a Plessy 9040 CTD.

Station information is provided in three different formats consisting of 1) monthly times series of nested temperature or salinity profiles, 2) numerical listings and 3) profiles of temperature, salinity and sigma-t (T-S-σ_t) versus depth.

Time series of temperature or salinity profiles to a maximum of 700 m nested into one month blocks are presented in "Results - Section 1". Station numbers are indicated at the end of each trace; all other labelling is self explanatory.

In general, two profiles of T-S-σ_t are graphically shown on one page of the data report. On the facing page, the corresponding numerical listings of the station are shown. The numerical data consist of the parameters relating to the station and in some cases are abbreviated to save space. A listing of these abbreviated terms and their meanings can be found in Table 2. The main body of the numerical listings consists of values of temperature, potential temperature, salinity, sigma-t (σ_t), specific volume anomaly, dynamic height and sound velocity against various interpolated levels of depth. Since upper surface layer data are omitted from the data set (the sensor being in the hydrohole), surface readings of temperature and salinity are duplicated from the first data seen in the cast. The first and last data of the station are shown as one of the first values below the depth of 0.0 meters and the last values of the listing respectively.

Some station listings will show nothing for dynamic height. This implies that either the segment of missing data in the profile was too large to interpolate over, or only temperature or salinity data were available.

Average values of the bottle data at a particular depth level are also listed at the bottom of the data listing.

Corresponding profiles of temperature, salinity and sigma-t for the station listing are shown on the facing page.

The label at the end of each trace (T-S-σ_t) indicates the parameter of temperature, salinity and sigma-t respectively. Scales at the upper part of the diagram are labeled to correspond to the parameters and are also shifted with respect to one another to provide the maximum amount of clarity of the traces. Depth is in meters. Station identification and data are in the lower left hand corner in the following format:

M1 STN-MOD

MONTH - DAY - YEAR

where

M1 is the camp identifier for Fram I

STN is the station number

MOD is the mode

1 = downtrace

2 = uptrace

Salinity values obtained from the bottle data are plotted on the traces as an "X" and temperature values obtained from reversing thermometers are indicated on the traces as a "+".

TABLE 2

Definition and Meanings of Abbreviated Terms in the Station Listing

Station xxx (y)	Station number (xxx) and mode of trace (y) where:
CTD	Station taken with CTD y = 1 indicates downtrace y = 2 indicates uptrace
GMT	Times shown are Greenwich Mean Time
Code = I	Processing Code where if I = A) 1 → 5 profile contains both temperature and salinity data. 1) data from magnetic tape 2) data from manual digitization of analog charts 3) subsequent filtering below 250 m in salinity only 4) subsequent filtering below 250 m in temperature only 5) subsequent filtering below 250 m in both temperature and salinity B) 11 → 13 profile is in salinity only 11) data from magnetic tape 12) data from manual digitization of analog charts 13) filtered below 250 meters C) 21 → 23 profile in temperature only 21) data from magnetic tape 22) data from manual digitization of analog charts 23) filtered below 250 meters
LAT	Latitude in decimal degrees N (North)
LONG	Longitude in decimal degrees W (West)
LTER	Estimate of positional error for latitude in meters
LGER	Estimate of positional error for longitude in meters
AIR TEMP	Air temperature in degrees C at 7.8 meters above surface of ice
BAROM	Barometric pressure in millibars, taken at surface
WIND	Wind direction in degrees true north, taken at 9.2 meters above surface of ice
SPEED	Wind speed in meters/sec., taken at 9.2 meters above surface of ice.

TABLE 2 (cont'd)

LISTING PARAMETERS

DEPTH	Depth in meters
TEMP	Temperature in degrees C
PTEMP	Potential temperature in degrees C
SALIN	Salinity in parts per thousand
SIG T	Sigma-t density where: density (ρ) = 1.0 + ((Sig T) * 1000.0)
SPVOL	Specific volume anomaly (x $10^{-5} cm^3/gm$)
DYNHT	Dynamic height (dynamic meters)
SOUND	Sound velocity in meters/sec., calculated from Matthews equation

BOTTLE DATA LISTING

DEPTH	Depth in meters at which bottle was tripped
TEMP	Average temperature of reversing thermometer in degrees C
SAL	Determined salinity of water sample taken at depth indicated; in ppt

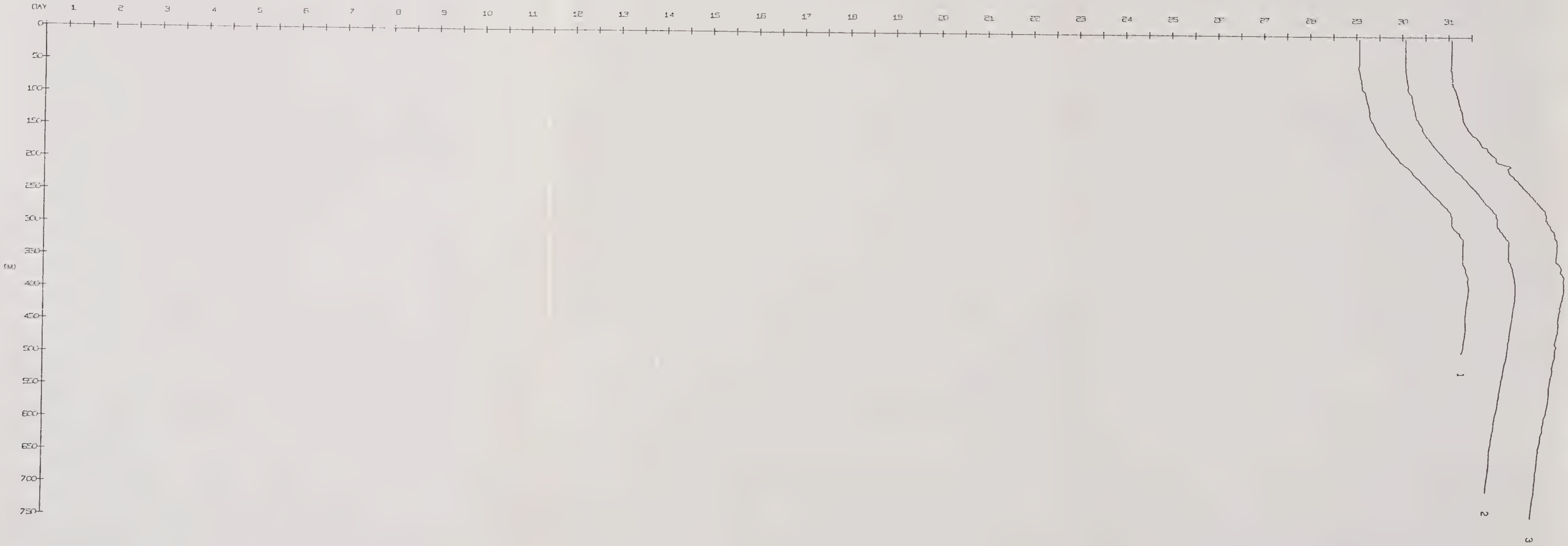
RESULTS

Section 1 (Nested Vertical Profiles)

This section contains the plots of temperature and salinity to a depth of 700 m nested into a monthly time series.

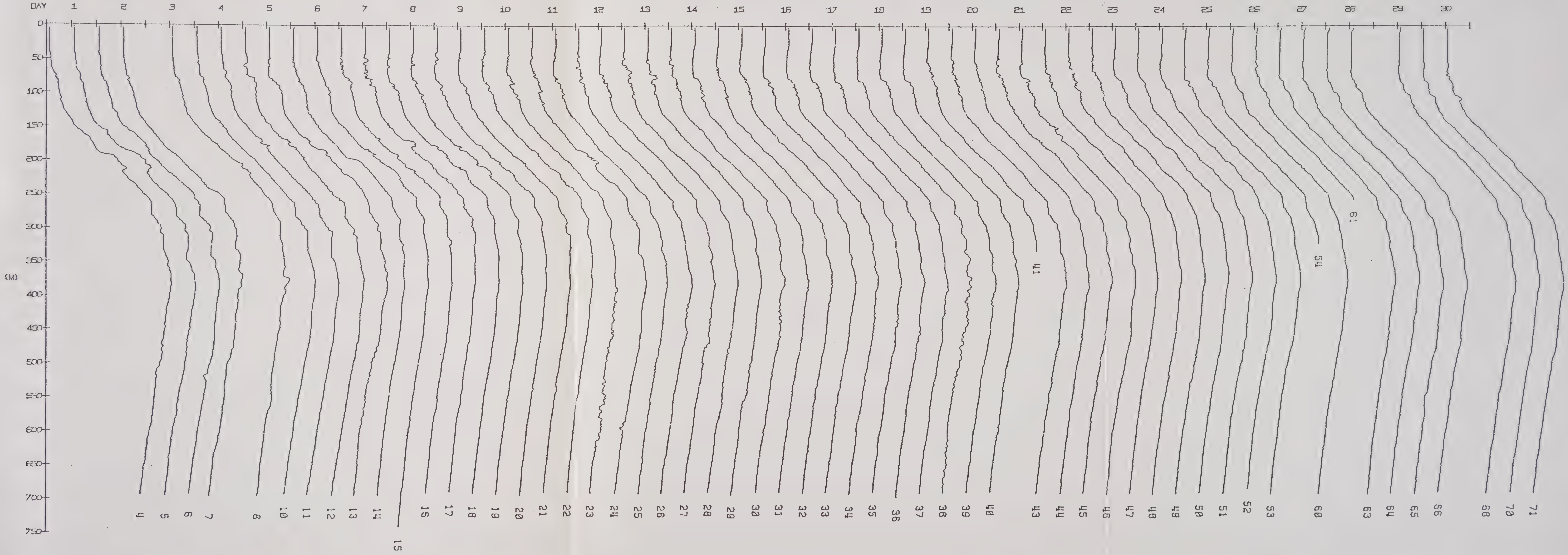
TEMPERATURE PROFILES AT CAMP FRAM 1
MAR 1, 1979 TO MAR 31, 1979

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG.C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



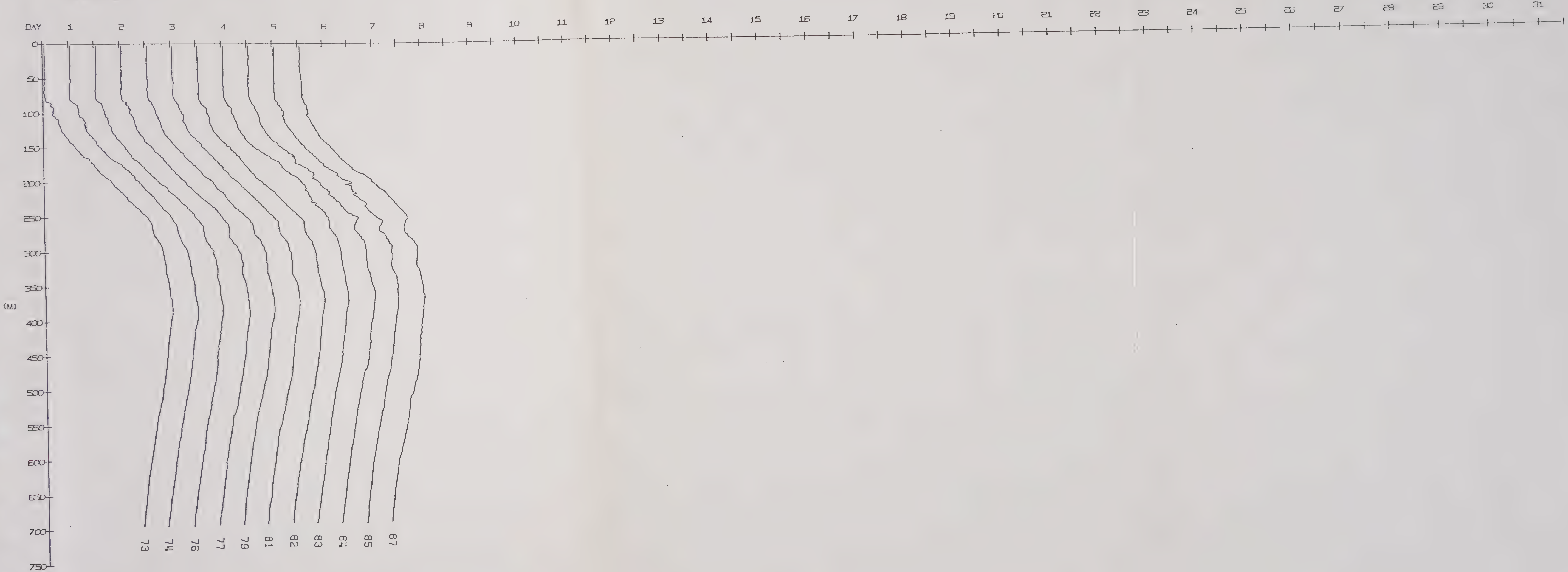
TEMPERATURE PROFILES AT CAMP FRAM 1
APR 1, 1979 TO APR 30, 1979

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG.C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



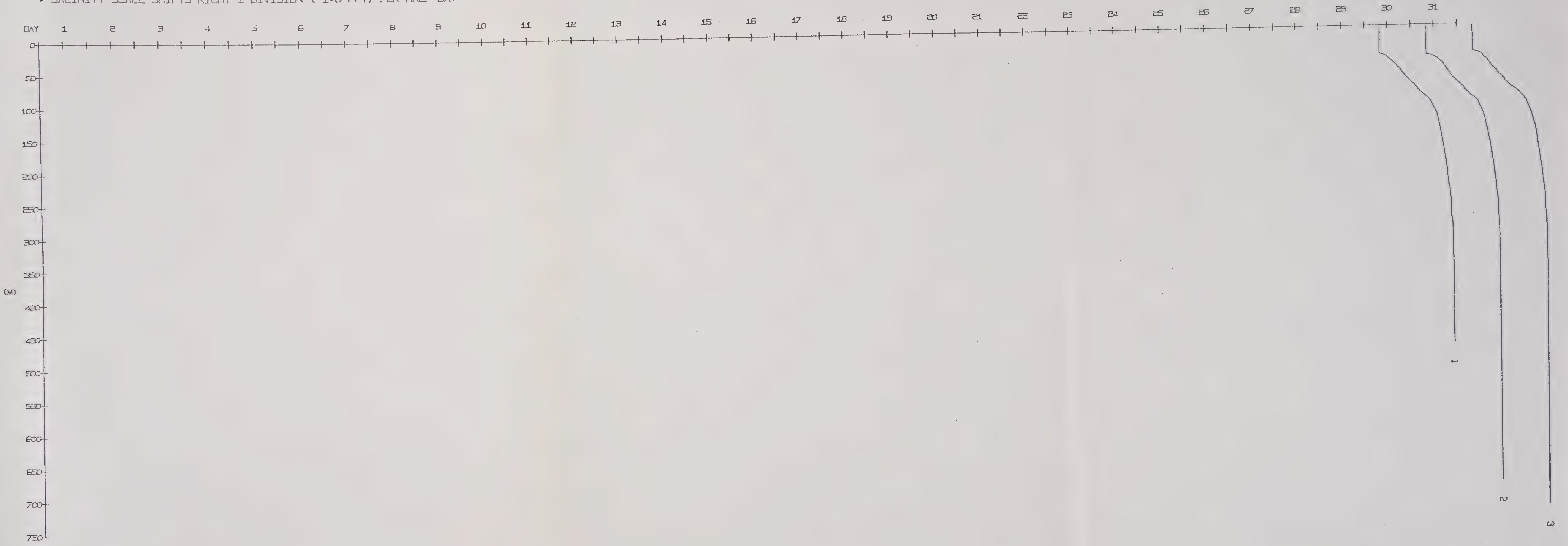
TEMPERATURE PROFILES AT CAMP FRAM 1
MAY 1, 1979 TO MAY 31, 1979

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG.C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



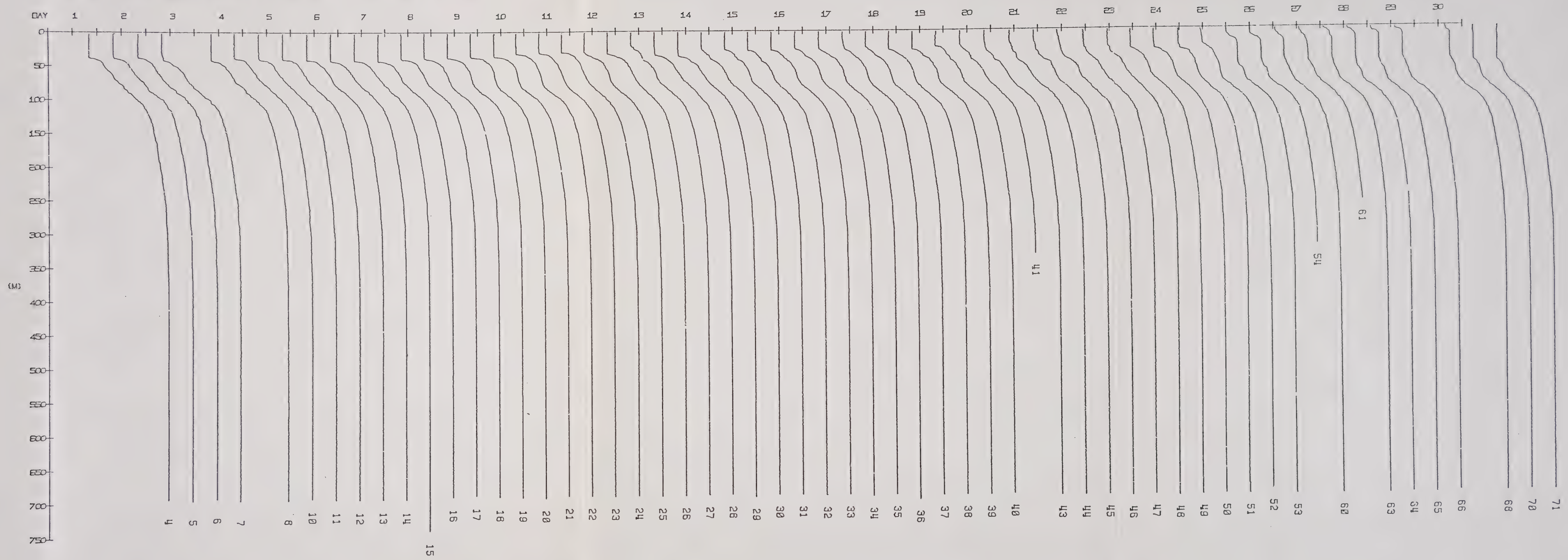
SALINITY PROFILES AT CAMP FRAM 1
MAR 1, 1979 TO MAR 31, 1979

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION (1.0 PPT) PER HALF DAY



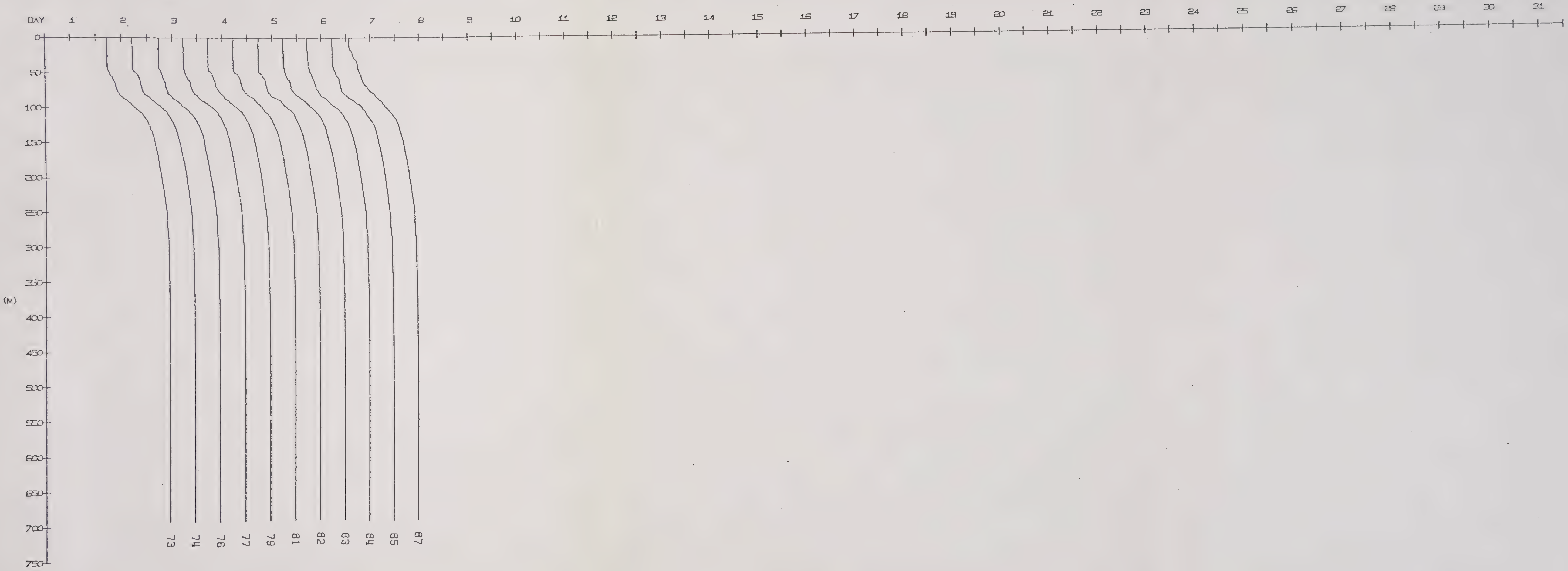
SALINITY PROFILES AT CAMP FRAM 1
APR 1, 1979 TO APR 30, 1979

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION (1.0 PPT) PER HALF DAY



SALINITY PROFILES AT CAMP FRAM 1
MAY 1, 1979 TO MAY 31, 1979

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION (1.0 PPT) PER HALF DAY



RESULTS

Section 2 (STD Data)

This section provides all of the STD Data taken at Fram I. The numerical lisings an corresponding plots are given.

```
 FRAM 1  STATION   1(1) CTD  29/MAR/1979 2200 GMT  CODE = 1
LAT = 84.8178N LNG =  10.4996W LTER =      1.  LGER =      2.
AIR TEMP =    0.0 BAROM =            WIND =   0.0 SPEED =   0.0

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.69   25.52   247.7   0.000   1436.5
   3.4   -1.73   -1.73   31.69   25.52   247.6   0.008   1436.5
   5.0   -1.73   -1.73   31.69   25.51   247.8   0.012   1436.6
  10.0   -1.73   -1.73   31.69   25.51   247.8   0.025   1436.6
  15.0   -1.73   -1.73   31.68   25.51   247.9   0.037   1436.7
  20.0   -1.73   -1.73   31.68   25.51   248.1   0.050   1436.8
  25.0   -1.73   -1.73   31.68   25.51   248.1   0.062   1436.9
  30.0   -1.73   -1.73   31.68   25.51   248.3   0.075   1437.0
  35.0   -1.73   -1.73   31.68   25.51   248.1   0.087   1437.0
  40.0   -1.73   -1.73   31.68   25.51   247.6   0.100   1437.1
  45.0   -1.74   -1.74   31.83   25.63   236.2   0.112   1437.4
  50.0   -1.75   -1.75   32.07   25.82   217.9   0.124   1437.8
  55.0   -1.73   -1.73   32.25   25.97   203.9   0.134   1438.2
  60.0   -1.72   -1.72   32.39   26.08   193.3   0.144   1438.5
  65.0   -1.71   -1.71   32.51   26.18   184.0   0.154   1438.8
  70.0   -1.69   -1.69   32.62   26.27   175.5   0.163   1439.2
  80.0   -1.67   -1.68   32.84   26.45   158.5   0.180   1439.7
  90.0   -1.60   -1.60   33.14   26.69   135.6   0.194   1440.6
 100.0   -1.56   -1.56   33.40   26.89   116.1   0.207   1441.4
 110.0   -1.52   -1.52   33.72   27.15    91.7   0.218   1442.2
 120.0   -1.50   -1.50   33.93   27.33    74.9   0.226   1442.7
 130.0   -1.46   -1.46   34.09   27.45    63.4   0.233   1443.3
 140.0   -1.38   -1.38   34.19   27.53    55.3   0.239   1444.0
 150.0   -1.30   -1.30   34.26   27.58    50.8   0.244   1444.6
 160.0   -1.18   -1.19   34.32   27.63    46.2   0.249   1445.4
 170.0   -1.10   -1.11   34.37   27.67    42.5   0.254   1446.0
 180.0   -0.97   -0.97   34.43   27.71    39.0   0.258   1446.9
 190.0   -0.84   -0.85   34.48   27.74    35.7   0.261   1447.7
 200.0   -0.68   -0.69   34.52   27.77    32.8   0.265   1448.7
 210.0   -0.54   -0.54   34.56   27.80    30.6   0.268   1449.6
 220.0   -0.39   -0.40   34.60   27.82    28.2   0.271   1450.5
 230.0   -0.26   -0.27   34.64   27.85    26.2   0.274   1451.3
 240.0   -0.13   -0.14   34.67   27.87    24.4   0.276   1452.1
 250.0    0.03    0.02   34.72   27.90    21.7   0.279   1453.1
 260.0    0.15    0.14   34.75   27.91    20.2   0.281   1453.8
 270.0    0.29    0.28   34.78   27.93    18.3   0.283   1454.7
 280.0    0.34    0.33   34.79   27.94    17.6   0.285   1455.1
 290.0    0.33    0.32   34.79   27.94    17.9   0.286   1455.2
 300.0    0.45    0.44   34.82   27.96    16.3   0.288   1456.0
 310.0    0.56    0.55   34.85   27.98    14.7   0.290   1456.7
 320.0    0.58    0.57   34.85   27.98    14.6   0.291   1456.9
 330.0    0.58    0.57   34.86   27.98    14.4   0.293   1457.1
 340.0    0.58    0.57   34.86   27.98    14.5   0.294   1457.3
 350.0    0.59    0.57   34.85   27.98    14.8   0.296   1457.5
 370.0    0.70    0.68   34.88   27.99    13.5   0.298   1458.3
 390.0    0.72    0.70   34.89   27.99    13.2   0.301   1458.7
 410.0    0.68    0.66   34.89   27.99    13.1   0.304   1458.9
 430.0    0.65    0.63   34.87   27.99    13.8   0.307   1459.1
 450.0    0.65    0.63   34.87   27.99    13.9   0.309   1459.4
 470.0    0.62    0.60   34.88   28.00    13.0   0.312   1459.6

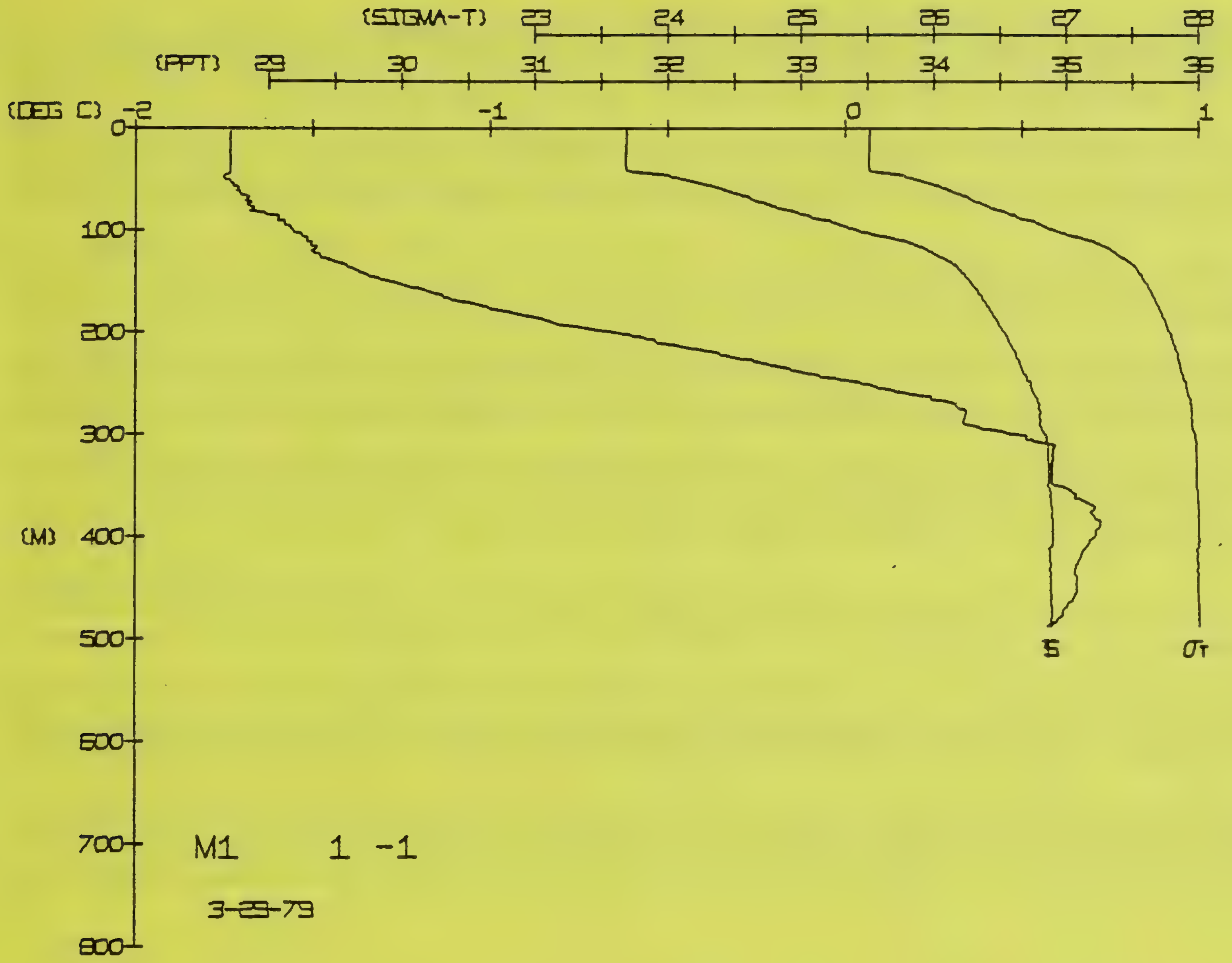
                    DEPTH        TEMP.        SALIN
```

```
 FRAM 1  STATION   2(1) CTD  30/MAR/1979 1627 GMT  CODE = 1
LAT = 84.7638N LNG =  10.3548W LTER =      2.  LGER =      5.
AIR TEMP =         BAROM =           WIND =          SPEED =

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.69   25.52   247.7   0.000   1436.5
   3.1   -1.73   -1.73   31.69   25.52   247.6   0.008   1436.5
   5.0   -1.73   -1.73   31.69   25.52   247.4   0.012   1436.6
  10.0   -1.73   -1.74   31.69   25.52   247.2   0.025   1436.6
  15.0   -1.73   -1.73   31.69   25.52   247.5   0.037   1436.7
  20.0   -1.73   -1.73   31.69   25.52   247.4   0.050   1436.8
  25.0   -1.73   -1.73   31.69   25.52   247.0   0.062   1436.9
  30.0   -1.73   -1.73   31.70   25.52   246.9   0.075   1437.0
  35.0   -1.73   -1.73   31.69   25.52   247.0   0.087   1437.1
  40.0   -1.73   -1.74   31.70   25.52   246.5   0.100   1437.1
  45.0   -1.73   -1.73   31.71   25.53   246.0   0.112   1437.2
  50.0   -1.73   -1.73   32.08   25.83   217.1   0.124   1437.9
  55.0   -1.72   -1.72   32.28   25.99   201.8   0.134   1438.3
  60.0   -1.71   -1.71   32.43   26.12   189.9   0.144   1438.6
  65.0   -1.70   -1.70   32.53   26.20   182.2   0.153   1438.9
  70.0   -1.69   -1.69   32.62   26.27   175.4   0.162   1439.2
  80.0   -1.68   -1.68   32.82   26.43   160.2   0.179   1439.6
  90.0   -1.59   -1.59   33.12   26.67   137.7   0.194   1440.6
 100.0   -1.57   -1.57   33.37   26.87   118.1   0.207   1441.3
 110.0   -1.53   -1.54   33.66   27.11    95.9   0.218   1442.0
 120.0   -1.50   -1.50   33.95   27.34    73.8   0.227   1442.8
 130.0   -1.43   -1.43   34.08   27.44    63.8   0.234   1443.4
 140.0   -1.34   -1.34   34.19   27.53    56.0   0.240   1444.2
 150.0   -1.28   -1.28   34.25   27.58    51.3   0.245   1444.7
 160.0   -1.17   -1.17   34.32   27.63    46.4   0.250   1445.5
 170.0   -1.06   -1.07   34.38   27.67    42.3   0.254   1446.2
 180.0   -0.94   -0.94   34.44   27.72    38.0   0.258   1447.1
 190.0   -0.81   -0.81   34.49   27.75    34.9   0.262   1447.9
 200.0   -0.67   -0.67   34.53   27.78    32.3   0.266   1448.8
 210.0   -0.52   -0.52   34.58   27.81    29.3   0.269   1449.7
 220.0   -0.37   -0.38   34.62   27.84    27.1   0.272   1450.6
 230.0   -0.25   -0.26   34.65   27.86    25.3   0.274   1451.4
 240.0   -0.10   -0.11   34.69   27.88    23.2   0.277   1452.3
 250.0    0.00   -0.01   34.71   27.90    21.6   0.279   1453.0
 260.0    0.13    0.12   34.76   27.92    19.1   0.281   1453.8
 270.0    0.24    0.23   34.78   27.94    17.9   0.283   1454.5
 280.0    0.31    0.30   34.80   27.95    17.2   0.285   1455.0
 290.0    0.31    0.30   34.80   27.94    17.4   0.286   1455.1
 300.0    0.42    0.40   34.82   27.96    15.9   0.288   1455.8
 310.0    0.51    0.49   34.85   27.97    14.7   0.290   1456.4
 320.0    0.56    0.55   34.86   27.98    14.3   0.291   1456.8
 330.0    0.56    0.55   34.86   27.98    14.2   0.292   1457.0
 340.0    0.56    0.54   34.86   27.98    14.4   0.294   1457.2
 350.0    0.61    0.59   34.87   27.99    13.6   0.295   1457.6
 370.0    0.68    0.67   34.86   27.98    14.8   0.298   1458.2
 390.0    0.71    0.69   34.87   27.98    14.6   0.301   1458.7
 410.0    0.69    0.67   34.87   27.98    14.7   0.304   1458.9
 430.0    0.65    0.63   34.87   27.98    14.1   0.307   1459.1
 450.0    0.62    0.59   34.87   27.99    13.8   0.310   1459.3
 470.0    0.57    0.55   34.88   28.00    12.9   0.313   1459.4
 490.0    0.54    0.52   34.89   28.00    12.7   0.315   1459.6
 510.0    0.48    0.45   34.88   28.00    12.4   0.318   1459.6
 530.0    0.42    0.40   34.89   28.01    12.0   0.320   1459.7
 550.0    0.38    0.36   34.88   28.01    11.5   0.322   1459.9
 570.0    0.34    0.32   34.88   28.01    11.2   0.325   1460.0
 590.0    0.28    0.26   34.88   28.01    10.9   0.327   1460.1
 610.0    0.24    0.21   34.88   28.02    10.5   0.329   1460.2
 630.0    0.20    0.17   34.89   28.02    10.5   0.331   1460.4
 650.0    0.17    0.14   34.88   28.02    10.3   0.333   1460.6
 670.0    0.15    0.12   34.88   28.02    10.2   0.335   1460.8
 690.0    0.11    0.08   34.88   28.03     9.5   0.337   1461.0

                    DEPTH        TEMP.        SALIN
```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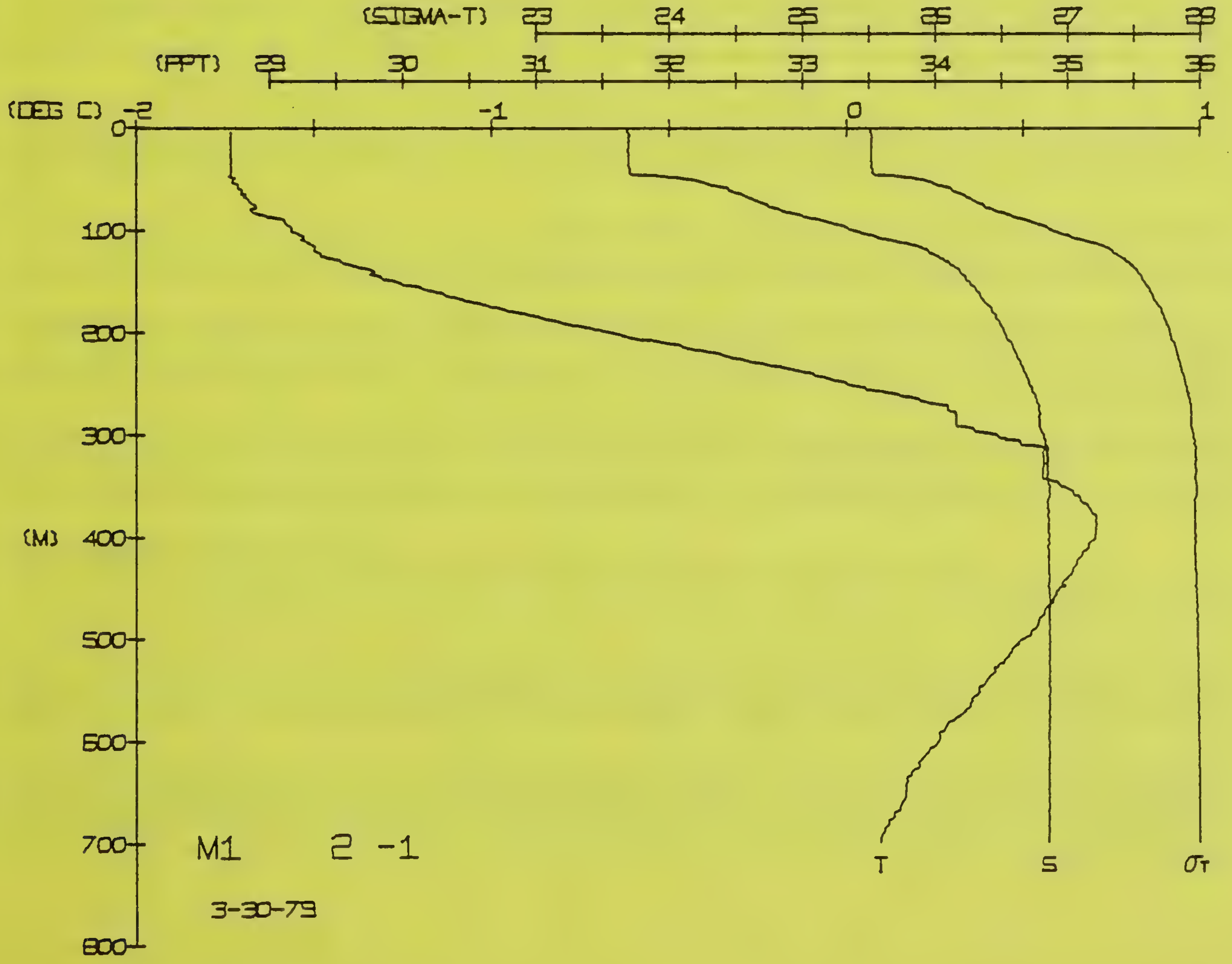
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600
700
800
T
S
σT
M1 2 -1
3-30-79

```
 FRAM 1  STATION   3(1) CTD  31/MAR/1979 1430 GMT  CODE = 1
LAT = 84.7157N LNG =  10.1187W LTER =      19. LGER =     35.
AIR TEMP =        BAROM =          WIND =         SPEED =

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL  DYNHT   SOUND

   0.0   -1.73   -1.73   31.66   25.49   249.7  0.000   1436.4
   3.0   -1.73   -1.73   31.66   25.49   249.7  0.008   1436.5
   5.0   -1.73   -1.73   31.66   25.49   250.0  0.013   1436.5
  10.0   -1.74   -1.74   31.66   25.49   249.6  0.025   1436.6
  15.0   -1.74   -1.74   31.68   25.51   247.9  0.038   1436.7
  20.0   -1.73   -1.74   31.68   25.51   247.8  0.050   1436.8
  25.0   -1.73   -1.74   31.68   25.51   247.9  0.063   1436.9
  30.0   -1.74   -1.74   31.69   25.52   247.0  0.075   1437.0
  35.0   -1.73   -1.73   31.69   25.52   247.1  0.088   1437.1
  40.0   -1.73   -1.74   31.71   25.53   245.8  0.100   1437.2
  45.0   -1.74   -1.75   32.01   25.77   222.7  0.112   1437.6
  50.0   -1.74   -1.75   32.16   25.90   210.6  0.123   1437.9
  55.0   -1.72   -1.72   32.31   26.02   199.1  0.133   1438.3
  60.0   -1.72   -1.72   32.41   26.10   191.5  0.143   1438.6
  65.0   -1.70   -1.70   32.52   26.19   183.1  0.152   1438.9
  70.0   -1.71   -1.71   32.65   26.29   173.4  0.161   1439.1
  80.0   -1.66   -1.66   32.92   26.51   152.9  0.178   1439.9
  90.0   -1.58   -1.59   33.13   26.68   136.8  0.192   1440.7
 100.0   -1.56   -1.56   33.48   26.96   109.9  0.205   1441.5
 110.0   -1.52   -1.52   33.78   27.21    86.5  0.215   1442.3
 120.0   -1.47   -1.47   33.99   27.37    70.5  0.223   1442.9
 130.0   -1.44   -1.45   34.10   27.46    62.2  0.229   1443.4
 140.0   -1.36   -1.36   34.22   27.55    53.8  0.235   1444.1
 150.0   -1.25   -1.26   34.29   27.61    48.2  0.240   1444.9
 160.0   -1.09   -1.10   34.38   27.67    42.3  0.245   1445.9
 170.0   -0.94   -0.94   34.42   27.70    39.6  0.249   1446.9
 180.0   -0.84   -0.84   34.46   27.73    36.8  0.253   1447.6
 190.0   -0.73   -0.74   34.50   27.76    34.5  0.256   1448.3
 200.0   -0.44   -0.44   34.56   27.79    31.1  0.260   1449.9
 210.0   -0.43   -0.44   34.59   27.82    28.9  0.263   1450.1
 220.0   -0.28   -0.28   34.63   27.84    26.4  0.266   1451.1
 230.0   -0.16   -0.17   34.67   27.87    24.4  0.268   1451.8
 240.0   -0.01   -0.02   34.71   27.89    22.3  0.270   1452.7
 250.0    0.11    0.10   34.74   27.91    20.6  0.273   1453.4
 260.0    0.23    0.22   34.77   27.93    18.8  0.275   1454.2
 270.0    0.33    0.31   34.79   27.94    17.5  0.276   1454.9
 280.0    0.34    0.33   34.80   27.95    17.3  0.278   1455.1
 290.0    0.44    0.43   34.82   27.96    16.3  0.280   1455.7
 300.0    0.53    0.51   34.84   27.97    15.1  0.281   1456.3
 310.0    0.57    0.56   34.86   27.98    14.0  0.283   1456.7
 320.0    0.59    0.58   34.87   27.99    13.8  0.284   1457.0
 330.0    0.59    0.57   34.86   27.98    14.1  0.286   1457.1
 340.0    0.57    0.56   34.86   27.98    14.0  0.287   1457.2
 350.0    0.65    0.64   34.88   27.99    13.5  0.289   1457.8
 370.0    0.74    0.72   34.90   28.00    12.7  0.291   1458.5
 390.0    0.74    0.72   34.90   28.00    12.7  0.294   1458.9
 410.0    0.68    0.66   34.89   28.00    12.4  0.296   1458.9
 430.0    0.64    0.62   34.90   28.01    12.1  0.299   1459.1
 450.0    0.62    0.60   34.90   28.01    11.6  0.301   1459.3
 470.0    0.56    0.54   34.90   28.01    11.3  0.304   1459.4
 490.0    0.57    0.55   34.90   28.02    11.0  0.306   1459.8
 510.0    0.51    0.49   34.90   28.02    10.6  0.308   1459.8
 530.0    0.47    0.44   34.90   28.02    10.3  0.310   1460.0
 550.0    0.44    0.42   34.91   28.03    10.2  0.312   1460.2
 570.0    0.41    0.38   34.90   28.03    10.0  0.314   1460.4
 590.0    0.33    0.31   34.91   28.03     9.3  0.316   1460.4
 610.0    0.28    0.26   34.91   28.03     9.0  0.318   1460.5
 630.0    0.23    0.20   34.91   28.04     8.5  0.320   1460.6
 650.0    0.19    0.17   34.91   28.04     8.1  0.321   1460.7
 670.0    0.16    0.13   34.91   28.04     8.2  0.323   1460.9
 690.0    0.13    0.10   34.91   28.05     7.8  0.325   1461.1
 710.0    0.10    0.07   34.91   28.05     7.3  0.326   1461.3
 730.0    0.06    0.03   34.91   28.05     7.2  0.328   1461.5
 740.0    0.05    0.02   34.92   28.06     6.1  0.328   1461.6

                       DEPTH        TEMP.        SALIN

      BOT NUM = 1       26.0        -1.75        31.70
      BOT NUM = 2      407.0         0.69        34.87
```

```
 FRAM 1  STATION   4(1) CTD   1/APR/1979 1100 GMT  CODE = 1
LAT = 84.7159N LNG =  10.1657W LTER =       0. LGER =      1.
AIR TEMP = -21.7 BAROM = 1024.6 WIND = 113.0 SPEED =

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL  DYNHT   SOUND

  0.0   -1.73   -1.73   31.69   25.51   247.8  0.000   1436.5
  3.1   -1.73   -1.73   31.69   25.51   247.8  0.008   1436.5
  5.0   -1.74   -1.74   31.69   25.52   247.5  0.012   1436.5
 10.0   -1.73   -1.73   31.69   25.52   247.5  0.025   1436.6
 15.0   -1.73   -1.73   31.69   25.51   247.8  0.037   1436.7
 20.0   -1.73   -1.73   31.69   25.52   247.4  0.050   1436.8
 25.0   -1.73   -1.74   31.69   25.52   247.4  0.062   1436.9
 30.0   -1.74   -1.74   31.69   25.51   247.5  0.075   1437.0
 35.0   -1.73   -1.73   31.69   25.51   247.6  0.087   1437.0
 40.0   -1.73   -1.73   31.81   25.61   237.8  0.099   1437.3
 45.0   -1.71   -1.71   32.20   25.93   207.9  0.111   1438.0
 50.0   -1.71   -1.71   32.30   26.01   200.0  0.121   1438.3
 55.0   -1.70   -1.70   32.40   26.09   192.6  0.131   1438.5
 60.0   -1.69   -1.69   32.55   26.21   180.8  0.140   1438.9
 65.0   -1.68   -1.68   32.66   26.30   172.3  0.149   1439.2
 70.0   -1.65   -1.65   32.74   26.36   166.7  0.158   1439.5
 80.0   -1.59   -1.60   33.06   26.63   141.6  0.173   1440.4
 90.0   -1.56   -1.56   33.29   26.81   124.4  0.187   1441.1
100.0   -1.53   -1.53   33.61   27.06   100.0  0.198   1441.8
110.0   -1.50   -1.50   33.91   27.30    77.2  0.207   1442.5
120.0   -1.46   -1.46   34.07   27.43    65.0  0.214   1443.1
130.0   -1.40   -1.40   34.20   27.54    54.8  0.220   1443.7
140.0   -1.30   -1.30   34.29   27.61    48.4  0.225   1444.5
150.0   -1.22   -1.22   34.33   27.64    45.3  0.230   1445.1
160.0   -1.06   -1.07   34.39   27.68    41.3  0.234   1446.1
170.0   -0.91   -0.92   34.47   27.74    36.3  0.238   1447.1
180.0   -0.82   -0.82   34.50   27.76    34.2  0.242   1447.7
190.0   -0.71   -0.72   34.53   27.78    31.8  0.245   1448.4
200.0   -0.36   -0.37   34.59   27.81    29.3  0.248   1450.3
210.0   -0.26   -0.26   34.63   27.84    26.5  0.251   1451.0
220.0   -0.24   -0.25   34.67   27.87    24.1  0.254   1451.3
230.0   -0.13   -0.14   34.70   27.89    22.2  0.256   1452.0
240.0    0.04    0.03   34.74   27.92    19.7  0.258   1453.0
250.0    0.15    0.14   34.77   27.93    18.4  0.260   1453.7
260.0    0.30    0.29   34.81   27.96    16.1  0.262   1454.6
270.0    0.35    0.34   34.82   27.96    15.7  0.263   1455.0
280.0    0.34    0.33   34.82   27.96    15.8  0.265   1455.1
290.0    0.43    0.42   34.84   27.97    14.7  0.267   1455.7
300.0    0.53    0.52   34.86   27.99    13.5  0.268   1456.4
310.0    0.53    0.52   34.87   27.99    13.0  0.269   1456.6
320.0    0.59    0.57   34.88   28.00    12.6  0.271   1457.0
330.0    0.59    0.58   34.88   28.00    12.7  0.272   1457.2
340.0    0.62    0.61   34.89   28.00    12.3  0.273   1457.5
350.0    0.68    0.66   34.90   28.01    11.7  0.274   1457.9
370.0    0.74    0.72   34.91   28.01    11.6  0.277   1458.5
390.0    0.73    0.72   34.92   28.02    11.2  0.279   1458.9
410.0    0.70    0.68   34.91   28.02    11.0  0.281   1459.0
430.0    0.64    0.62   34.91   28.02    10.8  0.283   1459.1
450.0    0.62    0.60   34.92   28.02    10.4  0.286   1459.4
470.0    0.56    0.54   34.92   28.03     9.7  0.288   1459.4
490.0    0.56    0.54   34.92   28.03     9.8  0.290   1459.8
510.0    0.48    0.46   34.92   28.03     9.4  0.292   1459.7
530.0    0.43    0.41   34.92   28.04     9.0  0.293   1459.8
550.0    0.41    0.39   34.92   28.04     8.6  0.295   1460.1
570.0    0.39    0.36   34.92   28.04     8.4  0.297   1460.3
590.0    0.36    0.33   34.93   28.05     8.1  0.299   1460.5
610.0    0.29    0.26   34.92   28.05     7.6  0.300   1460.5
630.0    0.24    0.22   34.92   28.05     7.6  0.302   1460.6
650.0    0.22    0.19   34.93   28.06     7.0  0.303   1460.9
670.0    0.17    0.14   34.92   28.06     6.9  0.305   1461.0
690.0    0.13    0.10   34.93   28.06     6.4  0.306   1461.1
697.0    0.13    0.10   34.93   28.07     5.8  0.306   1461.3

                       DEPTH        TEMP.        SALIN

      BOT NUM = 1        3.2                     31.70
      BOT NUM = 2       31.4        -1.72
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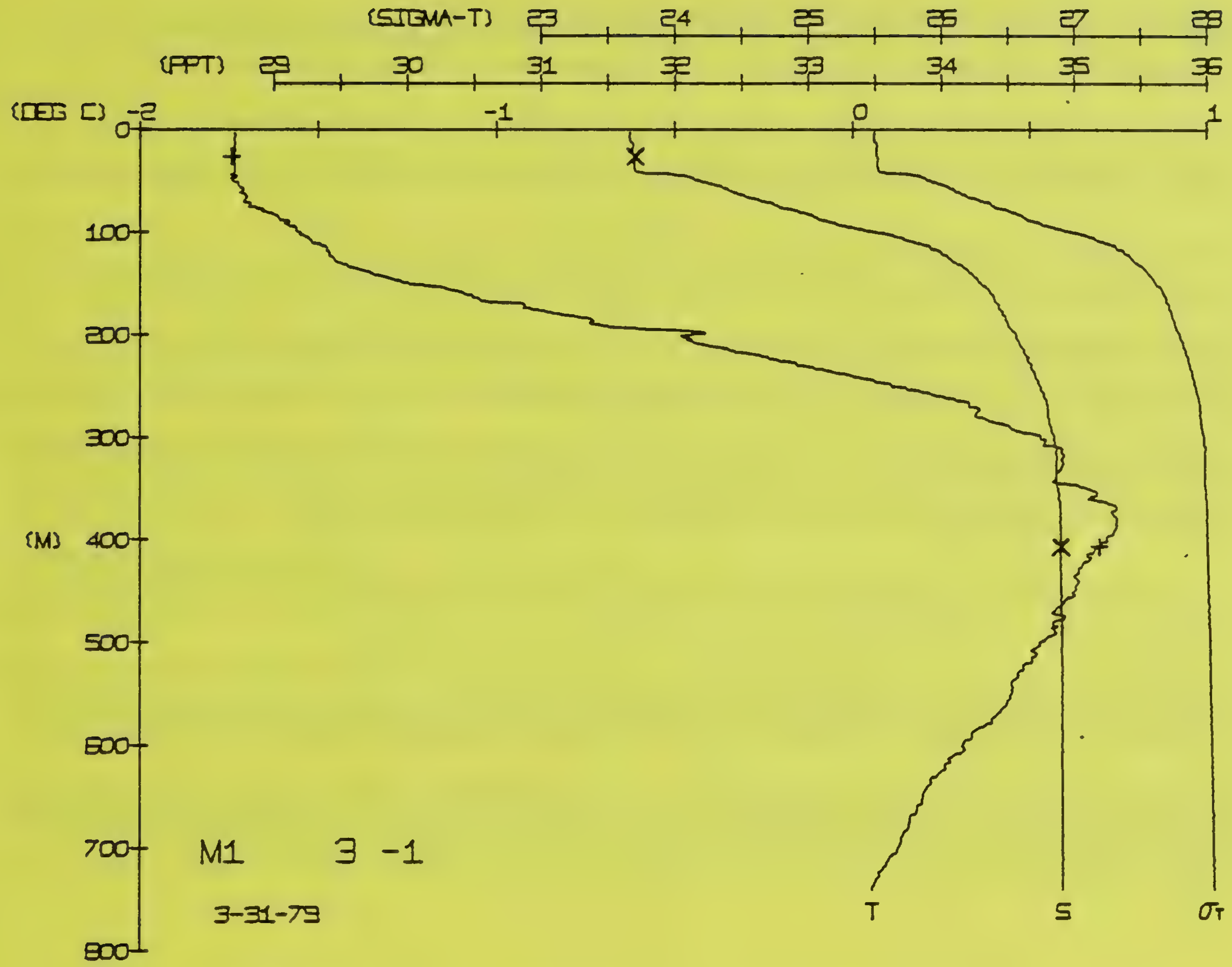
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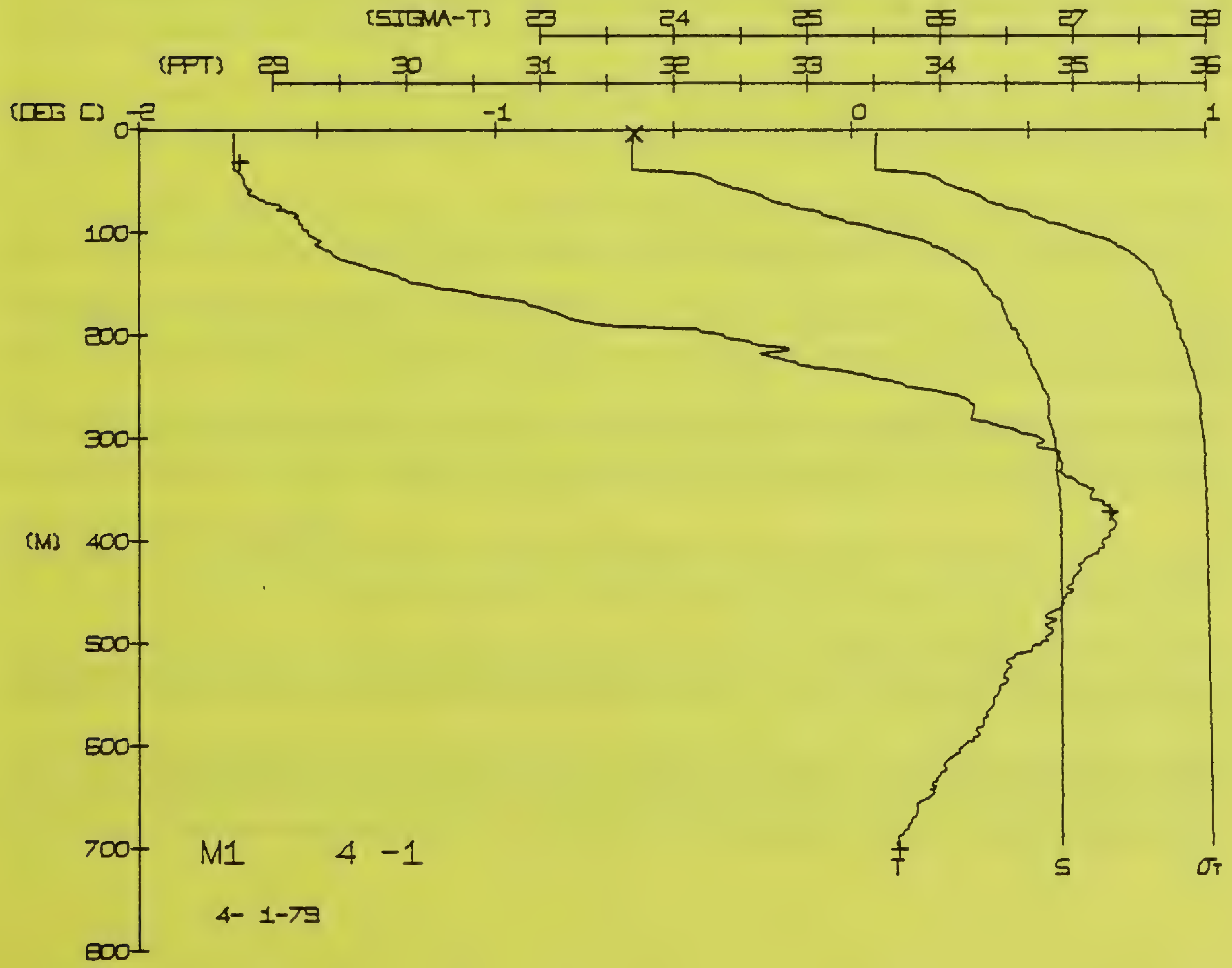
3-31-73
T
S
σT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(DEG C) -2 -1 0 1
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100
200
300
(M) 400
500
600
700
800
M1 4 -1
4- 1-73
T
S
σT

```
 FRAM 1  STATION    5(1) CTD   1/APR/1979 1707 GMT   CODE = 1
LAT = 84.7276N LNG =  10.2235W LTER =      10. LGER =     29.
AIR TEMP = -21.7 BAROM = 1019.8 WIND = 113.0 SPEED =

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.76   25.57   242.4   0.000   1436.6
   3.0   -1.73   -1.73   31.76   25.57   242.4   0.007   1436.6
   5.0   -1.73   -1.73   31.68   25.50   248.7   0.012   1436.5
  10.0   -1.73   -1.73   31.67   25.50   248.8   0.025   1436.6
  15.0   -1.74   -1.74   31.68   25.51   248.5   0.037   1436.7
  20.0   -1.73   -1.73   31.67   25.50   248.7   0.050   1436.8
  25.0   -1.73   -1.73   31.67   25.50   248.6   0.062   1436.9
  30.0   -1.73   -1.73   31.67   25.50   248.5   0.075   1436.9
  35.0   -1.74   -1.74   31.68   25.51   247.8   0.087   1437.0
  40.0   -1.73   -1.73   31.74   25.56   243.1   0.100   1437.2
  45.0   -1.71   -1.71   32.17   25.91   210.1   0.111   1438.0
  50.0   -1.70   -1.71   32.32   26.03   198.5   0.121   1438.3
  55.0   -1.70   -1.70   32.42   26.11   191.1   0.131   1438.6
  60.0   -1.70   -1.70   32.51   26.18   184.4   0.141   1438.8
  65.0   -1.69   -1.69   32.60   26.25   176.8   0.150   1439.0
  70.0   -1.64   -1.64   32.73   26.35   167.4   0.158   1439.5
  80.0   -1.61   -1.61   33.00   26.57   146.7   0.174   1440.2
  90.0   -1.55   -1.55   33.21   26.74   130.5   0.188   1441.0
 100.0   -1.53   -1.53   33.61   27.07    99.5   0.200   1441.8
 110.0   -1.50   -1.50   33.87   27.28    79.9   0.209   1442.5
 120.0   -1.46   -1.47   34.07   27.43    64.9   0.216   1443.1
 130.0   -1.41   -1.41   34.17   27.52    57.0   0.222   1443.6
 140.0   -1.36   -1.37   34.23   27.56    52.6   0.228   1444.1
 150.0   -1.24   -1.25   34.32   27.63    46.4   0.233   1445.0
 160.0   -1.06   -1.06   34.38   27.68    42.0   0.237   1446.1
 170.0   -0.98   -0.99   34.42   27.71    39.2   0.241   1446.7
 180.0   -0.85   -0.85   34.48   27.74    35.6   0.245   1447.5
 190.0   -0.52   -0.53   34.54   27.78    32.3   0.249   1449.3
 200.0   -0.33   -0.33   34.59   27.81    29.5   0.252   1450.4
 210.0   -0.20   -0.21   34.63   27.84    27.2   0.255   1451.2
 220.0   -0.25   -0.25   34.65   27.86    25.3   0.257   1451.2
 230.0   -0.16   -0.17   34.68   27.88    23.2   0.260   1451.8
 240.0   -0.03   -0.04   34.72   27.90    21.4   0.262   1452.6
 250.0    0.12    0.11   34.75   27.92    19.4   0.264   1453.5
 260.0    0.26    0.25   34.79   27.94    17.4   0.266   1454.4
 270.0    0.33    0.32   34.81   27.95    16.7   0.268   1454.9
 280.0    0.35    0.34   34.81   27.96    16.3   0.269   1455.2
 290.0    0.42    0.41   34.83   27.97    15.3   0.271   1455.7
 300.0    0.54    0.52   34.86   27.98    13.9   0.272   1456.4
 310.0    0.56    0.55   34.87   27.99    13.5   0.274   1456.7
 320.0    0.59    0.57   34.87   27.99    13.3   0.275   1457.0
 330.0    0.59    0.57   34.87   27.99    13.2   0.276   1457.2
 340.0    0.56    0.55   34.87   27.99    13.3   0.278   1457.2
 350.0    0.56    0.54   34.87   27.99    13.3   0.279   1457.4
 370.0    0.71    0.69   34.90   28.00    12.2   0.282   1458.4
 390.0    0.74    0.72   34.91   28.01    11.8   0.284   1458.9
 410.0    0.71    0.69   34.91   28.01    11.4   0.286   1459.1
 430.0    0.66    0.64   34.91   28.01    11.4   0.289   1459.2
 450.0    0.63    0.61   34.91   28.02    11.1   0.291   1459.4
 470.0    0.58    0.56   34.91   28.02    10.5   0.293   1459.5
 490.0    0.56    0.54   34.91   28.03    10.2   0.295   1459.7
 510.0    0.52    0.49   34.91   28.03    10.0   0.297   1459.9
 530.0    0.47    0.45   34.92   28.03     9.5   0.299   1460.0
 550.0    0.40    0.38   34.92   28.04     9.1   0.301   1460.0
 570.0    0.37    0.34   34.91   28.04     8.9   0.303   1460.2
 590.0    0.32    0.30   34.92   28.04     8.2   0.305   1460.3
 610.0    0.27    0.25   34.92   28.05     8.1   0.306   1460.4
 630.0    0.23    0.21   34.92   28.05     7.8   0.308   1460.6
 650.0    0.20    0.17   34.91   28.05     7.9   0.310   1460.8
 670.0    0.18    0.15   34.92   28.05     7.4   0.311   1461.0
 690.0    0.15    0.12   34.92   28.05     7.2   0.313   1461.2

                         DEPTH        TEMP.        SALIN

       BOT NUM = 1         2.8
       BOT NUM = 2        32.1        -1.72        31.69
       BOT NUM = 3       402.2         0.73        34.89
       BOT NUM = 4       700.6         0.14        34.90
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```
 FRAM 1  STATION    6(1) CTD   2/APR/1979  740 GMT   CODE = 1
LAT = 84.7410N LNG =  10.2326W LTER =      99. LGER =    120.
AIR TEMP = -28.5 BAROM = 1018.5 WIND = 192.0 SPEED =    2.4

DEPTH     TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   31.70   25.52   246.9   0.000   1436.5
   3.1   -1.74   -1.74   31.70   25.52   246.9   0.008   1436.5
   5.0   -1.73   -1.73   31.70   25.52   247.2   0.012   1436.6
  10.0   -1.73   -1.73   31.69   25.52   247.4   0.025   1436.6
  15.0   -1.73   -1.73   31.68   25.51   248.1   0.037   1436.7
  20.0   -1.73   -1.73   31.68   25.51   248.1   0.050   1436.8
  25.0   -1.73   -1.73   31.69   25.51   247.7   0.062   1436.9
  30.0   -1.73   -1.74   31.69   25.51   247.6   0.075   1437.0
  35.0   -1.74   -1.74   31.69   25.51   247.5   0.087   1437.0
  40.0   -1.74   -1.74   31.81   25.62   237.6   0.099   1437.3
  45.0   -1.74   -1.74   32.17   25.90   210.5   0.111   1437.9
  50.0   -1.71   -1.71   32.31   26.02   199.6   0.121   1438.3
  55.0   -1.70   -1.70   32.41   26.10   192.0   0.131   1438.5
  60.0   -1.71   -1.71   32.48   26.15   186.5   0.141   1438.7
  65.0   -1.71   -1.71   32.60   26.25   177.5   0.150   1438.9
  70.0   -1.69   -1.69   32.69   26.33   170.0   0.158   1439.2
  80.0   -1.65   -1.65   32.94   26.53   150.9   0.175   1440.0
  90.0   -1.58   -1.58   33.27   26.79   125.8   0.189   1440.9
 100.0   -1.55   -1.55   33.64   27.09    97.6   0.200   1441.8
 110.0   -1.50   -1.50   33.86   27.27    80.4   0.209   1442.5
 120.0   -1.47   -1.47   34.05   27.42    66.0   0.216   1443.1
 130.0   -1.39   -1.39   34.21   27.55    54.3   0.222   1443.8
 140.0   -1.32   -1.33   34.26   27.59    50.5   0.228   1444.3
 150.0   -1.24   -1.25   34.30   27.62    47.5   0.232   1444.9
 160.0   -1.05   -1.05   34.39   27.67    42.3   0.237   1446.1
 170.0   -0.89   -0.90   34.45   27.73    37.3   0.241   1447.1
 180.0   -0.78   -0.78   34.50   27.76    34.0   0.245   1447.9
 190.0   -0.70   -0.71   34.53   27.78    31.9   0.248   1448.5
 200.0   -0.58   -0.59   34.59   27.81    29.2   0.251   1449.2
 210.0   -0.46   -0.47   34.61   27.84    27.2   0.254   1450.0
 220.0   -0.31   -0.32   34.66   27.87    24.3   0.256   1450.9
 230.0   -0.13   -0.13   34.69   27.88    22.9   0.259   1452.0
 240.0    0.03    0.03   34.73   27.91    20.5   0.261   1453.0
 250.0    0.18    0.17   34.77   27.93    18.4   0.263   1453.8
 260.0    0.24    0.23   34.80   27.95    16.8   0.265   1454.3
 270.0    0.33    0.32   34.82   27.97    15.4   0.266   1454.9
 280.0    0.33    0.32   34.81   27.95    16.4   0.268   1455.1
 290.0    0.39    0.38   34.83   27.97    15.1   0.270   1455.6
 300.0    0.54    0.52   34.86   27.99    13.7   0.271   1456.4
 310.0    0.58    0.57   34.89   28.00    12.8   0.272   1456.8
 320.0    0.58    0.57   34.87   27.99    13.1   0.274   1457.0
 330.0    0.56    0.55   34.87   27.99    13.1   0.275   1457.0
 340.0    0.56    0.54   34.87   27.99    13.4   0.276   1457.2
 350.0    0.63    0.61   34.89   28.00    12.7   0.278   1457.7
 370.0    0.71    0.69   34.90   28.01    11.9   0.280   1458.4
 390.0    0.73    0.71   34.91   28.01    11.3   0.283   1458.9
 410.0    0.69    0.67   34.91   28.01    11.4   0.285   1459.0
 430.0    0.66    0.65   34.91   28.01    11.6   0.287   1459.2
 450.0    0.63    0.61   34.91   28.02    10.7   0.289   1459.4
 470.0    0.63    0.61   34.92   28.03    10.0   0.291   1459.7
 490.0    0.60    0.57   34.93   28.03     9.6   0.293   1459.9
 510.0    0.52    0.50   34.92   28.03     9.5   0.295   1459.9
 530.0    0.46    0.44   34.92   28.03     9.3   0.297   1460.0
 550.0    0.42    0.40   34.92   28.04     8.9   0.299   1460.1
 570.0    0.37    0.35   34.92   28.04     8.4   0.301   1460.2
 590.0    0.33    0.30   34.92   28.05     8.1   0.303   1460.3
 610.0    0.28    0.26   34.92   28.05     7.6   0.304   1460.5
 630.0    0.24    0.22   34.92   28.04     8.1   0.306   1460.6
 650.0    0.20    0.17   34.92   28.05     7.1   0.307   1460.8
 670.0    0.17    0.14   34.92   28.05     7.1   0.309   1461.0
 690.0    0.13    0.10   34.92   28.06     6.8   0.310   1461.1

                         DEPTH        TEMP.        SALIN

       BOT NUM = 1         3.0
       BOT NUM = 2        33.0        -1.74        31.67
       BOT NUM = 3       390.3         0.73
       BOT NUM = 4       700.4         0.13        34.90
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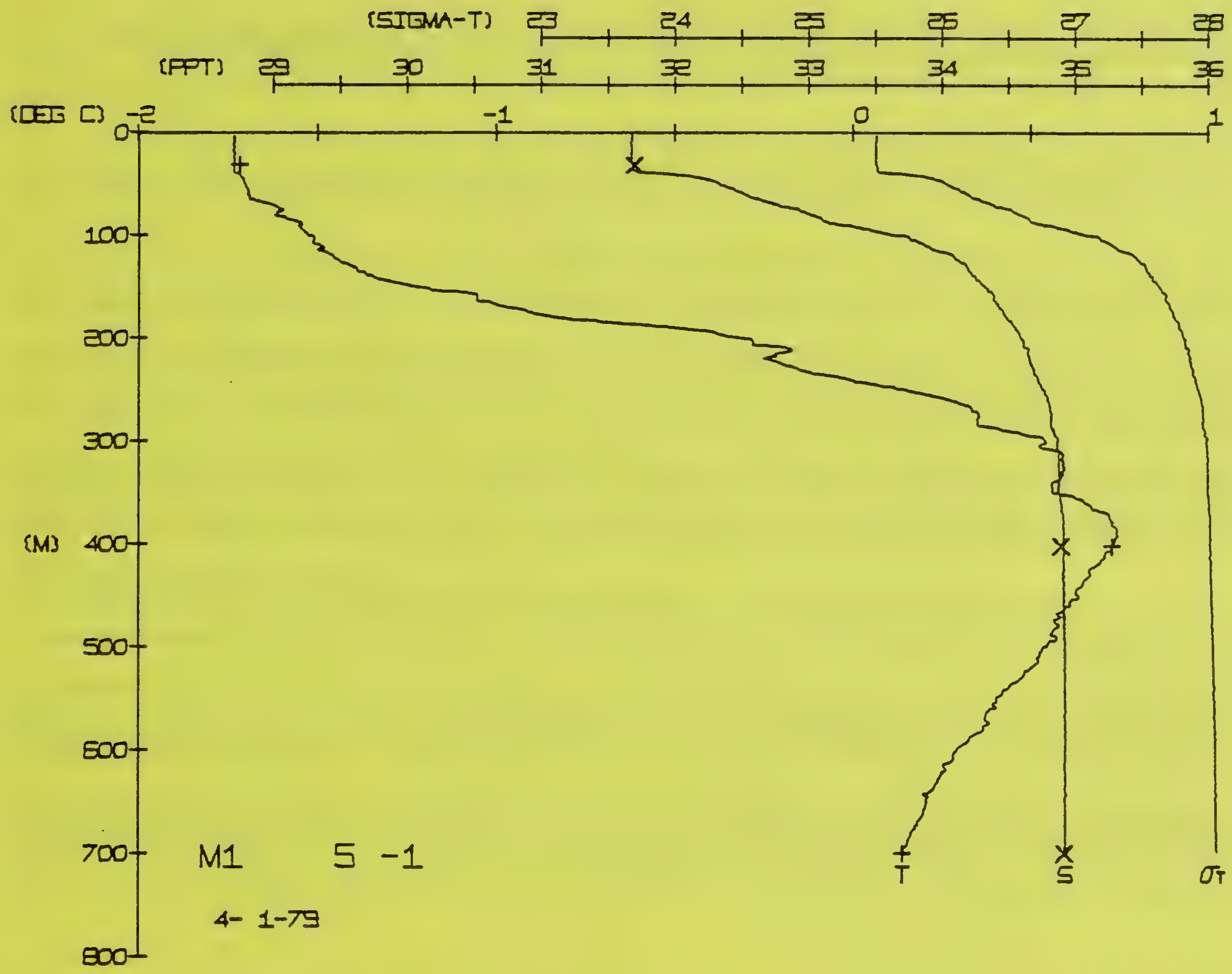
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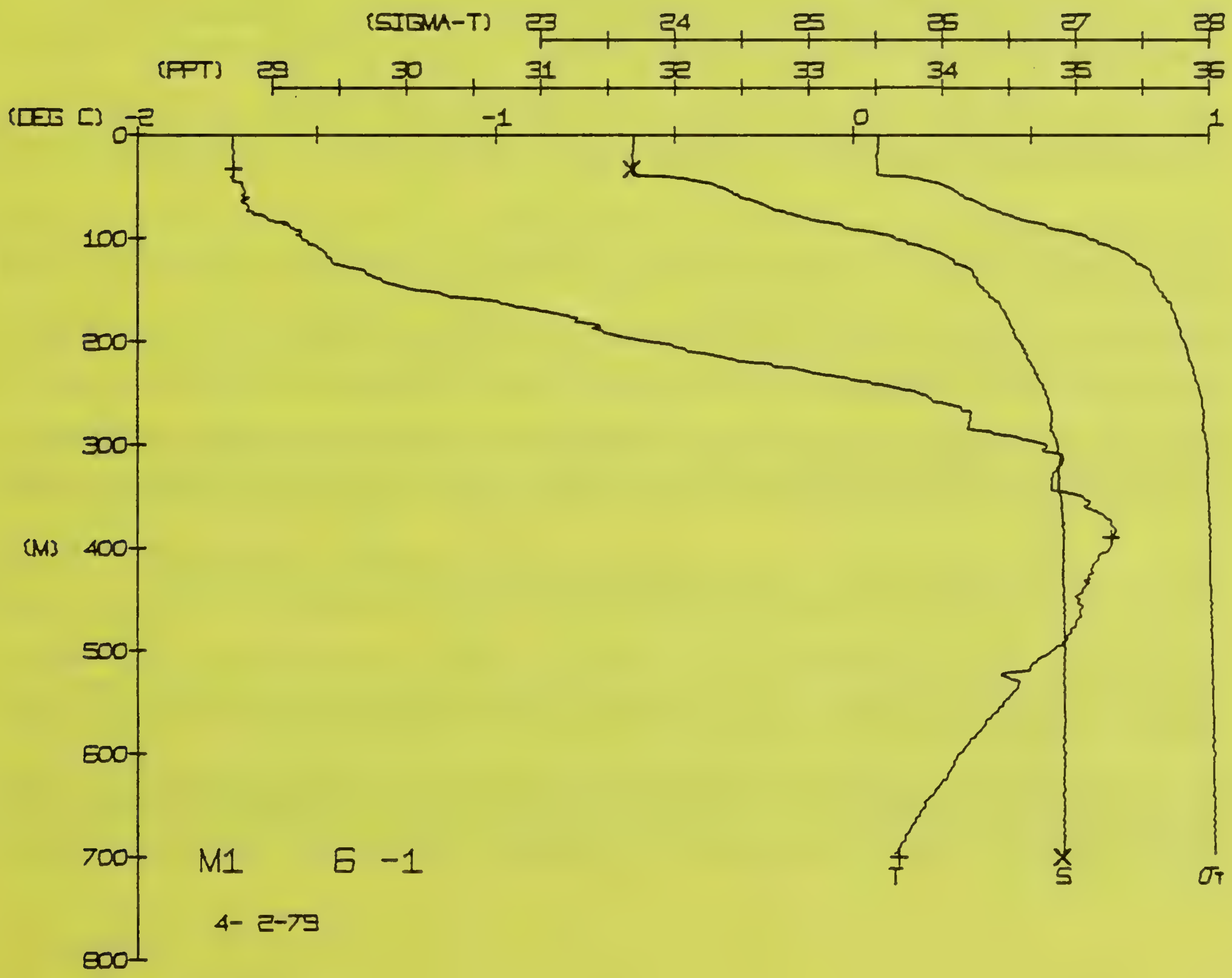
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 6 -1
4- 2-79
T
S
σT

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 FRAM 1  STATION   7(1) CTD   2/APR/1979 1807 GMT   CODE = 1
LAT = 84. 7235N LNG =   10. 1539W LTER =       1. LGER =       2.
AIR TEMP = -28. 5 BAROM = 1021. 1 WIND = 192. 0 SPEED =    2. 4

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  31. 67  25. 50  249. 0  0. 000  1436. 4
   3. 1  -1. 74  -1. 74  31. 67  25. 50  249. 0  0. 008  1436. 5
   5. 0  -1. 74  -1. 74  31. 66  25. 49  249. 6  0. 013  1436. 5
  10. 0  -1. 74  -1. 74  31. 66  25. 49  249. 6  0. 025  1436. 6
  15. 0  -1. 73  -1. 73  31. 66  25. 49  249. 5  0. 038  1436. 7
  20. 0  -1. 74  -1. 74  31. 67  25. 50  249. 3  0. 050  1436. 8
  25. 0  -1. 73  -1. 73  31. 66  25. 49  249. 7  0. 063  1436. 8
  30. 0  -1. 74  -1. 74  31. 66  25. 49  249. 6  0. 075  1436. 9
  35. 0  -1. 74  -1. 74  31. 69  25. 51  247. 5  0. 088  1437. 0
  40. 0  -1. 74  -1. 74  31. 73  25. 54  244. 5  0. 100  1437. 2
  45. 0  -1. 73  -1. 73  31. 94  25. 72  227. 6  0. 112  1437. 6
  50. 0  -1. 73  -1. 73  32. 16  25. 89  211. 2  0. 123  1438. 0
  55. 0  -1. 72  -1. 72  32. 37  26. 07  194. 7  0. 133  1438. 4
  60. 0  -1. 70  -1. 70  32. 53  26. 19  182. 6  0. 143  1438. 8
  65. 0  -1. 69  -1. 69  32. 61  26. 26  176. 3  0. 152  1439. 0
  70. 0  -1. 68  -1. 68  32. 68  26. 32  170. 8  0. 161  1439. 3
  80. 0  -1. 61  -1. 61  32. 91  26. 50  153. 3  0. 177  1440. 1
  90. 0  -1. 59  -1. 59  33. 21  26. 74  130. 5  0. 191  1440. 8
 100. 0  -1. 54  -1. 54  33. 56  27. 03  103. 4  0. 203  1441. 7
 110. 0  -1. 50  -1. 50  33. 83  27. 25   82. 7  0. 213  1442. 4
 120. 0  -1. 47  -1. 47  34. 02  27. 40   68. 5  0. 220  1443. 0
 130. 0  -1. 42  -1. 42  34. 15  27. 50   58. 5  0. 227  1443. 6
 140. 0  -1. 34  -1. 34  34. 23  27. 56   52. 9  0. 232  1444. 2
 150. 0  -1. 24  -1. 25  34. 30  27. 61   47. 8  0. 237  1444. 9
 160. 0  -1. 12  -1. 13  34. 38  27. 67   42. 3  0. 242  1445. 8
 170. 0  -1. 01  -1. 01  34. 42  27. 70   39. 4  0. 246  1446. 5
 180. 0  -0. 90  -0. 90  34. 46  27. 74   36. 4  0. 250  1447. 3
 190. 0  -0. 74  -0. 74  34. 52  27. 77   33. 2  0. 253  1448. 3
 200. 0  -0. 57  -0. 58  34. 55  27. 79   31. 0  0. 257  1449. 3
 210. 0  -0. 45  -0. 46  34. 61  27. 83   27. 6  0. 259  1450. 0
 220. 0  -0. 29  -0. 30  34. 64  27. 85   26. 0  0. 262  1451. 0
 230. 0  -0. 15  -0. 16  34. 68  27. 88   23. 5  0. 265  1451. 9
 240. 0  -0. 04  -0. 05  34. 71  27. 89   22. 0  0. 267  1452. 6
 250. 0   0. 19   0. 18  34. 75  27. 92   19. 8  0. 269  1453. 9
 260. 0   0. 33   0. 32  34. 80  27. 95   17. 2  0. 271  1454. 7
 270. 0   0. 35   0. 34  34. 80  27. 95   17. 2  0. 273  1455. 0
 280. 0   0. 36   0. 35  34. 81  27. 95   16. 8  0. 274  1455. 2
 290. 0   0. 48   0. 47  34. 83  27. 97   15. 5  0. 276  1455. 9
 300. 0   0. 54   0. 53  34. 85  27. 98   14. 4  0. 278  1456. 4
 310. 0   0. 59   0. 57  34. 87  27. 99   13. 7  0. 279  1456. 8
 320. 0   0. 58   0. 57  34. 87  27. 99   13. 8  0. 280  1457. 0
 330. 0   0. 56   0. 54  34. 86  27. 98   14. 0  0. 282  1457. 0
 340. 0   0. 65   0. 63  34. 88  27. 99   13. 5  0. 283  1457. 6
 350. 0   0. 66   0. 64  34. 88  27. 99   13. 2  0. 284  1457. 8
 370. 0   0. 67   0. 66  34. 88  27. 99   13. 3  0. 287  1458. 2
 390. 0   0. 69   0. 67  34. 90  28. 01   11. 9  0. 290  1458. 7
 410. 0   0. 62   0. 61  34. 89  28. 01   12. 0  0. 292  1458. 7
 430. 0   0. 58   0. 56  34. 89  28. 00   12. 2  0. 295  1458. 8
 450. 0   0. 56   0. 54  34. 89  28. 01   11. 9  0. 297  1459. 0
 470. 0   0. 54   0. 52  34. 90  28. 02   11. 1  0. 299  1459. 3
 490. 0   0. 48   0. 46  34. 90  28. 02   10. 5  0. 302  1459. 4
 510. 0   0. 39   0. 36  34. 90  28. 02   10. 4  0. 304  1459. 3
 530. 0   0. 36   0. 34  34. 90  28. 02   10. 2  0. 306  1459. 5
 550. 0   0. 35   0. 32  34. 90  28. 02   10. 1  0. 308  1459. 7
 570. 0   0. 30   0. 27  34. 90  28. 03    9. 5  0. 310  1459. 9
 590. 0   0. 28   0. 25  34. 91  28. 03    9. 0  0. 312  1460. 1
 610. 0   0. 23   0. 21  34. 91  28. 04    8. 5  0. 313  1460. 2
 630. 0   0. 17   0. 14  34. 90  28. 04    8. 7  0. 315  1460. 3
 650. 0   0. 12   0. 09  34. 90  28. 04    8. 5  0. 317  1460. 4
 670. 0   0. 08   0. 06  34. 90  28. 04    8. 3  0. 319  1460. 6
 690. 0   0. 05   0. 02  34. 90  28. 04    7. 9  0. 320  1460. 7

                             DEPTH        TEMP.        SALIN

         BOT NUM = 1          0. 5       -1. 72
         BOT NUM = 2         35. 6       -1. 75       31. 68
         BOT NUM = 3        388. 4        0. 69       34. 89
         BOT NUM = 4        700. 4        0. 05       34. 90
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 FRAM 1  STATION   8(1) CTD   3/APR/1979 1707 GMT   CODE = 1
LAT = 84. 6746N LNG =    9. 6833W LTER =      36. LGER =      63.
AIR TEMP = -27. 0 BAROM = 1028. 6 WIND = 261. 0 SPEED =    5. 8

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  31. 71  25. 53  246. 2  0. 000  1436. 5
   3. 1  -1. 74  -1. 74  31. 71  25. 53  246. 2  0. 008  1436. 5
   5. 0  -1. 74  -1. 74  31. 70  25. 53  246. 5  0. 012  1436. 6
  10. 0  -1. 74  -1. 74  31. 70  25. 52  246. 9  0. 025  1436. 6
  15. 0  -1. 74  -1. 74  31. 70  25. 52  246. 7  0. 037  1436. 7
  20. 0  -1. 74  -1. 74  31. 70  25. 52  246. 9  0. 050  1436. 8
  25. 0  -1. 74  -1. 74  31. 70  25. 52  246. 9  0. 062  1436. 9
  30. 0  -1. 74  -1. 74  31. 70  25. 52  246. 8  0. 075  1437. 0
  35. 0  -1. 74  -1. 74  31. 70  25. 52  246. 7  0. 087  1437. 0
  40. 0  -1. 73  -1. 74  31. 69  25. 52  246. 9  0. 099  1437. 1
  45. 0  -1. 74  -1. 74  31. 88  25. 67  232. 5  0. 111  1437. 5
  50. 0  -1. 73  -1. 73  32. 19  25. 92  208. 6  0. 123  1438. 0
  55. 0  -1. 72  -1. 72  32. 33  26. 03  197. 9  0. 133  1438. 3
  60. 0  -1. 71  -1. 71  32. 46  26. 13  188. 2  0. 143  1438. 7
  65. 0  -1. 70  -1. 70  32. 55  26. 21  180. 8  0. 152  1438. 9
  70. 0  -1. 70  -1. 70  32. 64  26. 28  174. 2  0. 161  1439. 1
  80. 0  -1. 63  -1. 63  32. 70  26. 50  153. 8  0. 177  1440. 0
  90. 0  -1. 57  -1. 57  33. 16  26. 70  134. 5  0. 192  1440. 8
 100. 0  -1. 53  -1. 54  33. 52  26. 99  107. 0  0. 204  1441. 6
 110. 0  -1  52  -1. 52  33. 78  27. 20   85. 6  0. 214  1442. 2
 120. 0  -1. 49  -1. 49  34. 01  27. 39   69. 1  0. 222  1442. 9
 130. 0  -1. 44  -1. 44  34. 11  27. 47   61. 4  0. 228  1443. 4
 140. 0  -1. 35  -1. 35  34. 22  27. 56   53. 2  0. 234  1444. 2
 150. 0  -1. 23  -1. 23  34. 31  27. 62   47. 3  0. 239  1445. 0
 160. 0  -1. 12  -1. 13  34. 37  27. 67   42. 9  0. 244  1445. 8
 170. 0  -0. 96  -0. 96  34. 43  27. 71   38. 5  0. 248  1446. 8
 180. 0  -0. 79  -0. 80  34. 48  27. 75   35. 4  0. 251  1447. 8
 190. 0  -0. 65  -0. 65  34. 54  27. 78   32. 1  0. 255  1448. 7
 200. 0  -0. 50  -0. 51  34. 57  27. 80   30. 2  0. 258  1449. 6
 210. 0  -0. 29  -0. 30  34. 62  27. 83   27. 6  0. 261  1450. 8
 220. 0  -0. 15  -0. 15  34. 65  27. 85   25. 8  0. 264  1451. 7
 230. 0  -0. 09  -0. 10  34. 69  27. 87   24. 0  0. 266  1452. 1
 240. 0   0. 03   0. 02  34. 70  27. 89   22. 6  0. 269  1452. 9
 250. 0   0. 14   0. 13  34. 74  27. 91   20. 6  0. 271  1453. 6
 260. 0   0. 26   0. 25  34. 77  27. 93   18. 8  0. 273  1454. 4
 270. 0   0. 33   0. 32  34. 79  27. 94   17. 7  0. 275  1454. 9
 280. 0   0. 37   0. 36  34. 81  27. 95   16. 9  0. 276  1455. 2
 290. 0   0. 46   0. 44  34. 83  27. 96   15. 6  0. 278  1455. 8
 300. 0   0. 50   0. 49  34. 84  27. 97   15. 1  0. 279  1456. 2
 310. 0   0. 49   0. 48  34. 85  27. 98   14. 6  0. 281  1456. 4
 320. 0   0. 50   0. 49  34. 85  27. 97   14. 8  0. 282  1456. 6
 330. 0   0. 55   0. 53  34. 86  27. 98   14. 0  0. 284  1457. 0
 340. 0   0. 56   0. 54  34. 86  27. 98   14. 2  0. 285  1457. 1
 350. 0   0. 57   0. 56  34. 87  27. 99   13. 7  0. 287  1457. 4
 370. 0   0. 56   0. 54  34. 87  27. 99   13. 3  0. 289  1457. 7
 390. 0   0. 60   0. 58  34. 88  28. 00   12. 8  0. 292  1458. 2
 410. 0   0. 54   0. 52  34. 88  28. 00   12. 3  0. 295  1458. 3
 430. 0   0. 49   0. 48  34. 88  28. 00   12. 1  0. 297  1458. 4
 450. 0   0. 49   0. 47  34. 89  28. 01   11. 6  0. 299  1458. 7
 470. 0   0. 43   0. 41  34. 89  28. 01   11. 3  0. 302  1458. 8
 490. 0   0. 38   0. 36  34. 88  28. 01   11. 2  0. 304  1458. 9
 510. 0   0. 35   0. 33  34. 89  28. 02   10. 9  0. 306  1459. 1
 530. 0   0. 31   0. 29  34. 89  28. 02   10. 4  0. 308  1459. 3
 550. 0   0. 31   0. 29  34. 89  28. 02   10. 1  0. 311  1459. 6
 570. 0   0. 29   0. 26  34. 90  28. 03    9. 3  0. 313  1459. 8
 590. 0   0. 20   0. 17  34. 89  28. 03    9. 3  0. 314  1459. 7
 610. 0   0. 17   0. 14  34. 90  28. 03    9. 0  0. 316  1459. 9
 630. 0   0. 14   0. 11  34. 89  28. 03    8. 9  0. 318  1460. 1
 650. 0   0. 10   0. 07  34. 90  28. 04    8. 4  0. 320  1460. 3
 670. 0   0. 08   0. 05  34. 90  28. 04    8. 0  0. 321  1460. 5
 690. 0   0. 06   0. 03  34. 90  28. 04    7. 9  0. 323  1460. 8

                             DEPTH        TEMP.        SALIN

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         BOT NUM = 2         36. 9       -1. 75       31. 69
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         BOT NUM = 4        701. 5        0. 03       34. 90
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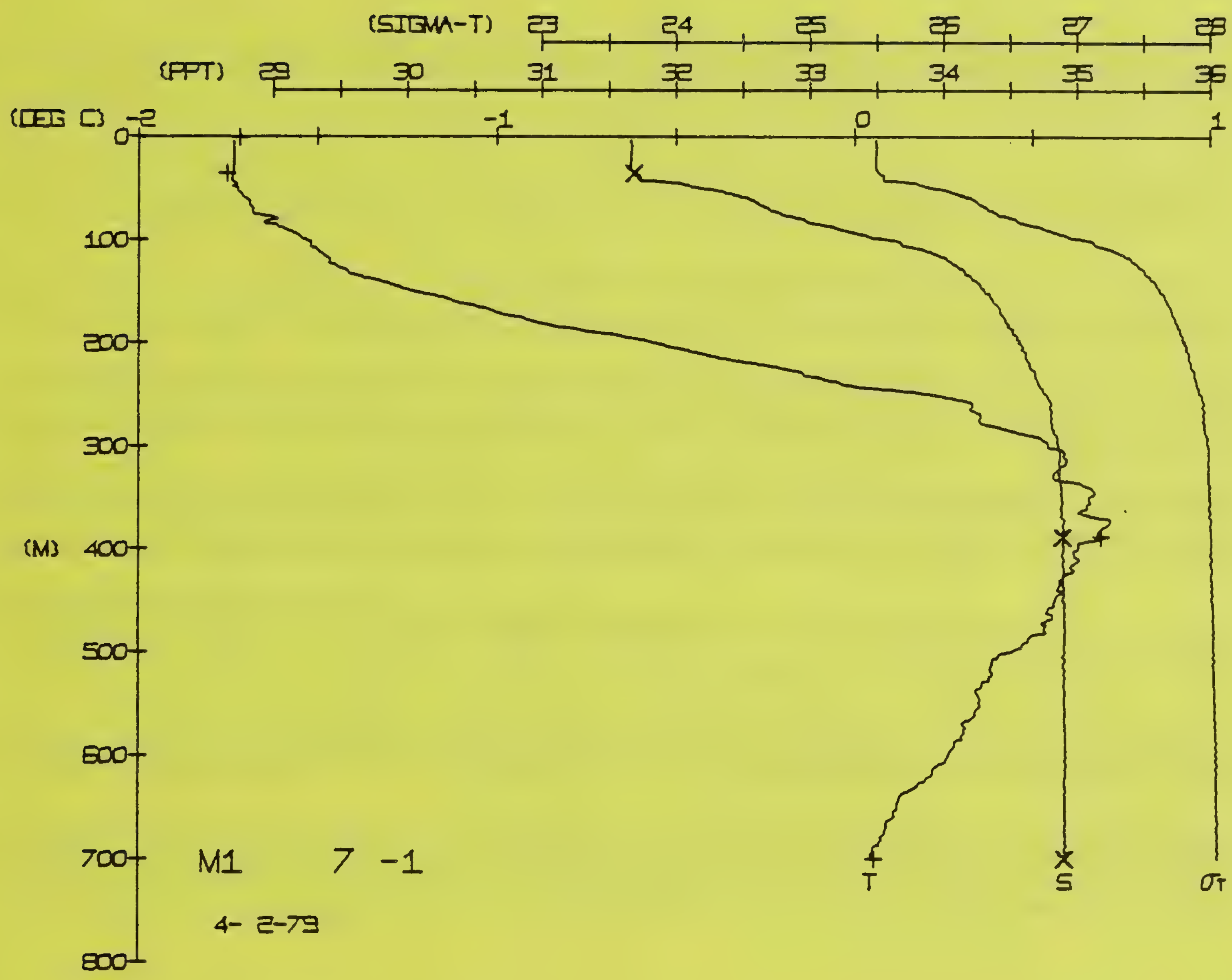
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(M) 400
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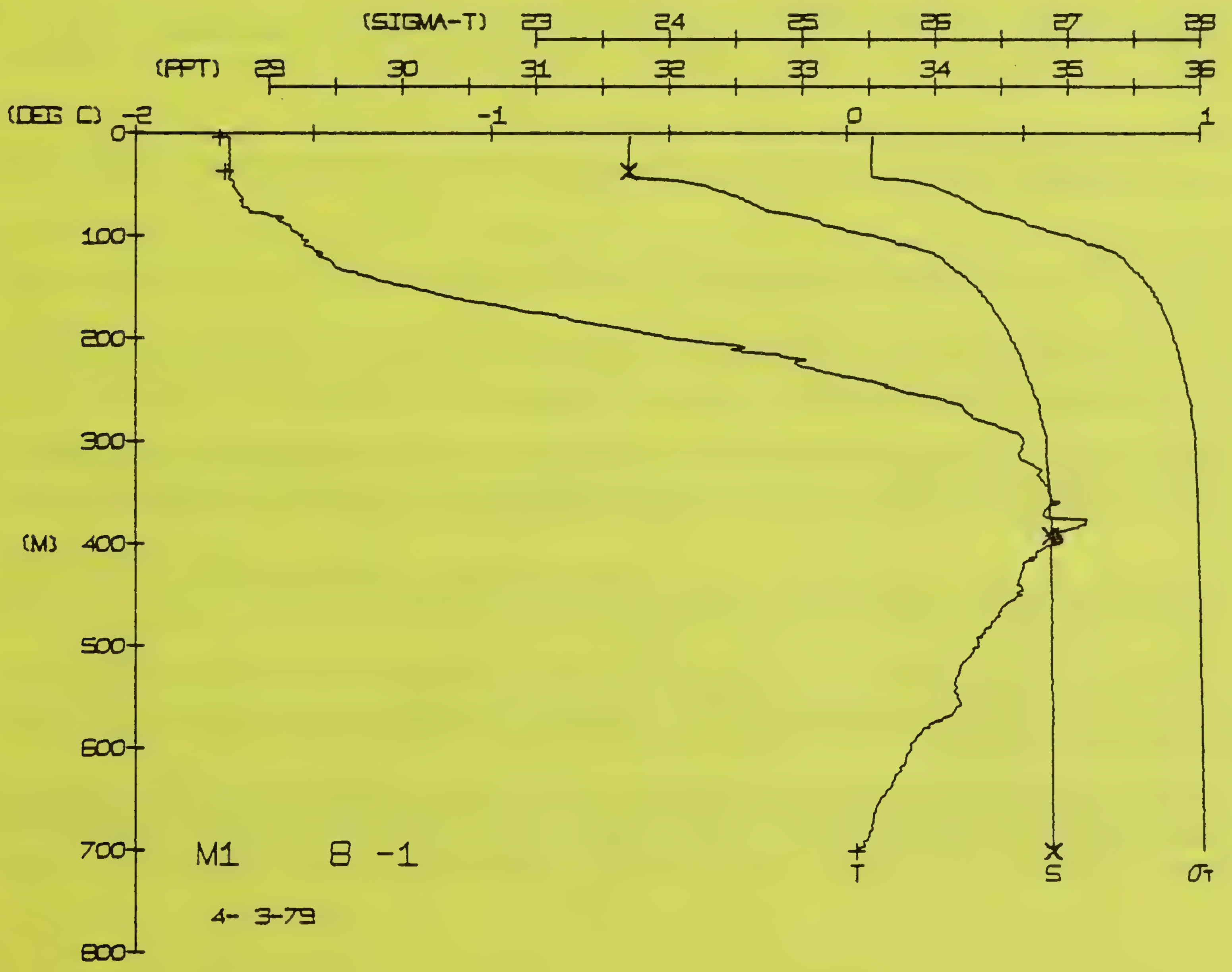
σT
M1 7 -1
4- 2-79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100
200
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600
700
800
T
S
σT
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4- 3-79

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LAT = 84.6716N LNG =    9.6581W LTER =       0. LGER =      0.
AIR TEMP = -27.0 BAROM = 1035.4 WIND = 261.0 SPEED =    5.8

 DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.74  -1.74   31.69   25.52   247.4   0.000  1436.5
   3.1  -1.74  -1.74   31.69   25.52   247.4   0.008  1436.5
   5.0  -1.73  -1.73   31.69   25.51   247.8   0.012  1436.5
  10.0  -1.73  -1.73   31.69   25.51   247.9   0.025  1436.6
  15.0  -1.74  -1.74   31.69   25.52   247.3   0.037  1436.7
  20.0  -1.74  -1.74   31.69   25.52   247.3   0.050  1436.8
  25.0  -1.74  -1.74   31.69   25.52   247.2   0.062  1436.9
  30.0  -1.74  -1.74   31.69   25.52   247.0   0.075  1437.0
  35.0  -1.73  -1.74   31.69   25.52   247.1   0.087  1437.0
  40.0  -1.74  -1.74   31.70   25.52   246.5   0.100  1437.1
  45.0  -1.74  -1.74   31.97   25.74   225.8   0.112  1437.6
  50.0  -1.72  -1.72   32.19   25.92   208.4   0.122  1438.1
  55.0  -1.70  -1.71   32.31   26.02   199.5   0.133  1438.4
  60.0  -1.71  -1.71   32.44   26.12   189.7   0.143  1438.6
  65.0  -1.69  -1.70   32.56   26.22   180.4   0.152  1439.0
  70.0  -1.69  -1.69   32.66   26.30   172.5   0.161  1439.2
  80.0  -1.62  -1.63   32.93   26.52   151.6   0.177  1440.1
  90.0  -1.59  -1.60   33.21   26.74   130.6   0.191  1440.8
 100.0  -1.53  -1.53   33.56   27.02   103.8   0.203  1441.7
 110.0  -1.50  -1.51   33.78   27.20    86.7   0.213  1442.3
 120.0  -1.47  -1.47   34.00   27.38    69.8   0.221  1443.0
 130.0  -1.43  -1.43   34.14   27.49    59.6   0.227  1443.5
 140.0  -1.34  -1.34   34.24   27.57    52.4   0.233  1444.2
 150.0  -1.22  -1.22   34.32   27.63    46.4   0.238  1445.1
 160.0  -1.11  -1.11   34.38   27.68    42.0   0.242  1445.9
 170.0  -0.98  -0.99   34.43   27.71    38.8   0.246  1446.7
 180.0  -0.84  -0.85   34.48   27.74    35.7   0.250  1447.6
 190.0  -0.69  -0.70   34.52   27.78    32.7   0.254  1448.5
 200.0  -0.48  -0.48   34.57   27.81    29.9   0.257  1449.7
 210.0  -0.38  -0.38   34.60   27.82    28.3   0.260  1450.4
 220.0  -0.21  -0.22   34.64   27.85    26.1   0.262  1451.4
 230.0  -0.09  -0.09   34.67   27.87    24.5   0.265  1452.2
 240.0   0.03   0.02   34.70   27.89    22.7   0.267  1452.9
 250.0   0.15   0.14   34.74   27.91    20.6   0.270  1453.7
 260.0   0.31   0.30   34.79   27.94    17.9   0.271  1454.6
 270.0   0.33   0.32   34.79   27.94    17.6   0.273  1454.9
 280.0   0.36   0.35   34.80   27.95    17.3   0.275  1455.2
 290.0   0.41   0.39   34.82   27.95    16.5   0.277  1455.6
 300.0   0.54   0.52   34.85   27.97    14.9   0.278  1456.4
 310.0   0.50   0.49   34.85   27.97    14.8   0.280  1456.4
 320.0   0.58   0.56   34.86   27.98    14.3   0.281  1456.9
 330.0   0.58   0.56   34.86   27.98    14.5   0.283  1457.1
 340.0   0.58   0.56   34.86   27.98    14.3   0.284  1457.2
 350.0   0.63   0.62   34.87   27.99    13.6   0.286  1457.7
 370.0   0.65   0.64   34.88   28.00    12.9   0.288  1458.1
 390.0   0.61   0.59   34.88   28.00    12.9   0.291  1458.3
 410.0   0.59   0.57   34.89   28.00    12.4   0.293  1458.5
 430.0   0.58   0.56   34.89   28.01    11.9   0.296  1458.8
 450.0   0.57   0.55   34.89   28.01    11.8   0.298  1459.1
 470.0   0.50   0.48   34.89   28.01    11.4   0.301  1459.1
 490.0   0.40   0.38   34.89   28.02    10.9   0.303  1459.0
 510.0   0.37   0.35   34.89   28.02    10.6   0.305  1459.2
 530.0   0.31   0.28   34.89   28.02    10.7   0.307  1459.2
 550.0   0.28   0.26   34.89   28.02    10.2   0.309  1459.4
 570.0   0.28   0.26   34.90   28.03     9.6   0.311  1459.8
 590.0   0.27   0.25   34.90   28.03     9.5   0.313  1460.1
 610.0   0.24   0.21   34.90   28.03     9.0   0.315  1460.3
 630.0   0.14   0.11   34.89   28.03     8.9   0.317  1460.1
 650.0   0.11   0.08   34.90   28.04     8.3   0.319  1460.3
 670.0   0.08   0.05   34.90   28.04     8.3   0.320  1460.5
 690.0   0.05   0.02   34.90   28.04     8.1   0.322  1460.8

                        DEPTH     TEMP.     SALIN

    BOT NUM = 1           3.7     -1.74     31.68
    BOT NUM = 2         397.1      0.61     34.88
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 FRAM 1  STATION  10(1) CTD   4/APR/1979  700 GMT  CODE = 1
LAT = 84.6601N LNG =    9.5517W LTER =      15. LGER =     27.
AIR TEMP = -28.3 BAROM = 1038.5 WIND = 218.0 SPEED =    4.2

 DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.73  -1.73   31.66   25.50   249.6   0.000  1436.4
   3.0  -1.73  -1.73   31.66   25.50   249.5   0.008  1436.5
   5.0  -1.73  -1.73   31.66   25.49   249.7   0.013  1436.5
  10.0  -1.73  -1.73   31.66   25.49   249.6   0.025  1436.6
  15.0  -1.73  -1.73   31.66   25.49   249.5   0.038  1436.7
  20.0  -1.73  -1.73   31.66   25.49   249.5   0.050  1436.8
  25.0  -1.73  -1.73   31.66   25.49   249.9   0.063  1436.8
  30.0  -1.73  -1.73   31.65   25.48   250.6   0.075  1436.9
  35.0  -1.73  -1.73   31.65   25.48   250.5   0.088  1437.0
  40.0  -1.73  -1.73   31.67   25.50   249.0   0.101  1437.1
  45.0  -1.71  -1.71   32.15   25.89   211.5   0.112  1438.0
  50.0  -1.71  -1.71   32.27   25.98   202.7   0.123  1438.2
  55.0  -1.71  -1.71   32.33   26.07   194.1   0.133  1438.4
  60.0  -1.69  -1.69   32.47   26.14   187.5   0.142  1438.8
  65.0  -1.68  -1.68   32.59   26.24   178.3   0.151  1439.1
  70.0  -1.68  -1.68   32.69   26.31   171.1   0.160  1439.3
  80.0  -1.60  -1.60   32.99   26.56   147.6   0.176  1440.3
  90.0  -1.57  -1.57   33.27   26.79   126.1   0.190  1440.9
 100.0  -1.52  -1.53   33.60   27.05   100.9   0.202  1441.8
 110.0  -1.50  -1.50   33.84   27.25    82.2   0.211  1442.4
 120.0  -1.47  -1.47   34.03   27.40    68.1   0.218  1443.0
 130.0  -1.42  -1.43   34.14   27.49    59.4   0.225  1443.5
 140.0  -1.34  -1.34   34.23   27.56    52.8   0.231  1444.2
 150.0  -1.20  -1.21   34.32   27.63    45.1   0.235  1445.2
 160.0  -1.11  -1.12   34.39   27.68    42.1   0.240  1445.8
 170.0  -1.01  -1.01   34.42   27.70    39.3   0.244  1446.5
 180.0  -0.86  -0.86   34.48   27.74    35.6   0.248  1447.5
 190.0  -0.72  -0.72   34.52   27.77    33.0   0.251  1448.4
 200.0  -0.54  -0.55   34.57   27.80    30.1   0.254  1449.4
 210.0  -0.44  -0.44   34.60   27.83    27.8   0.257  1450.1
 220.0  -0.30  -0.31   34.63   27.84    26.4   0.260  1450.9
 230.0  -0.18  -0.18   34.67   27.87    24.0   0.263  1451.7
 240.0  -0.05  -0.05   34.70   27.89    22.4   0.265  1452.5
 250.0   0.07   0.06   34.74   27.91    20.3   0.267  1453.3
 260.0   0.19   0.18   34.77   27.93    18.9   0.269  1454.0
 270.0   0.29   0.28   34.80   27.95    17.1   0.271  1454.7
 280.0   0.31   0.30   34.80   27.95    17.2   0.273  1455.0
 290.0   0.37   0.36   34.81   27.96    16.4   0.274  1455.4
 300.0   0.49   0.48   34.84   27.97    14.9   0.276  1456.2
 310.0   0.56   0.55   34.86   27.98    14.2   0.277  1456.7
 320.0   0.56   0.55   34.86   27.98    14.0   0.279  1456.9
 330.0   0.56   0.55   34.86   27.98    13.9   0.280  1457.0
 340.0   0.57   0.56   34.86   27.98    14.1   0.282  1457.2
 350.0   0.63   0.61   34.88   27.99    13.4   0.283  1457.7
 370.0   0.69   0.68   34.89   28.00    12.9   0.286  1458.3
 390.0   0.71   0.69   34.89   28.00    12.8   0.288  1458.7
 410.0   0.69   0.67   34.90   28.00    12.3   0.291  1459.0
 430.0   0.65   0.63   34.90   28.01    11.7   0.293  1459.1
 450.0   0.64   0.62   34.90   28.01    11.5   0.296  1459.4
 470.0   0.61   0.59   34.91   28.02    11.1   0.298  1459.6
 490.0   0.55   0.53   34.91   28.02    10.4   0.300  1459.7
 510.0   0.49   0.47   34.91   28.03    10.2   0.302  1459.8
 530.0   0.45   0.43   34.91   28.03    10.0   0.304  1459.9
 550.0   0.40   0.37   34.91   28.03     9.6   0.306  1460.0
 570.0   0.35   0.33   34.91   28.03     9.4   0.308  1460.1
 590.0   0.30   0.27   34.91   28.04     8.7   0.310  1460.2
 610.0   0.27   0.24   34.91   28.04     8.8   0.312  1460.4
 630.0   0.22   0.20   34.91   28.04     8.1   0.313  1460.5
 650.0   0.18   0.15   34.91   28.04     8.1   0.315  1460.7
 670.0   0.15   0.12   34.90   28.04     8.2   0.317  1460.9
 690.0   0.12   0.09   34.91   28.05     7.3   0.318  1461.1

                        DEPTH     TEMP.     SALIN

    BOT NUM = 1           3.7     -1.75     31.66
    BOT NUM = 2          35.1     -1.73     31.66
    BOT NUM = 3         394.1      0.72     34.89
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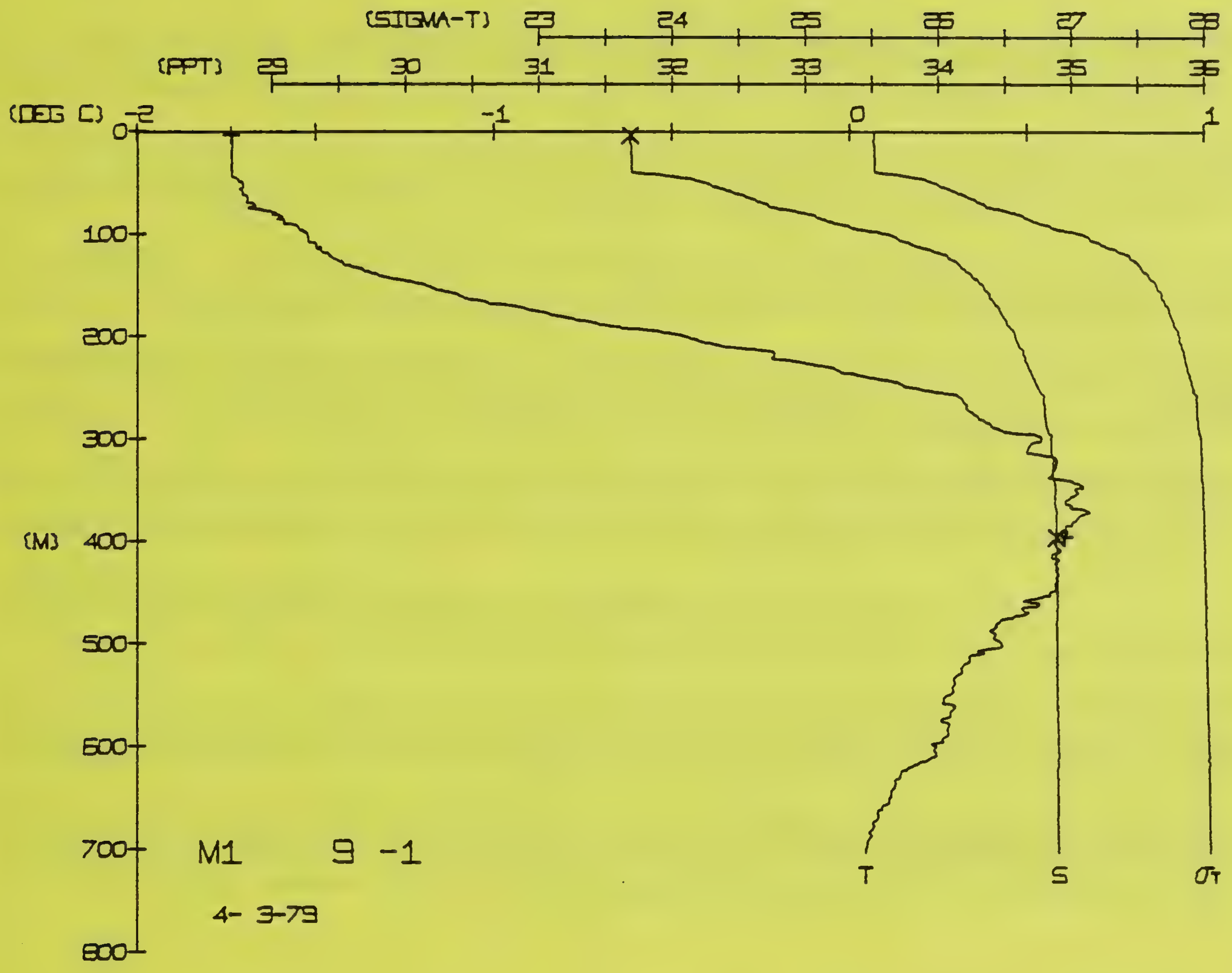
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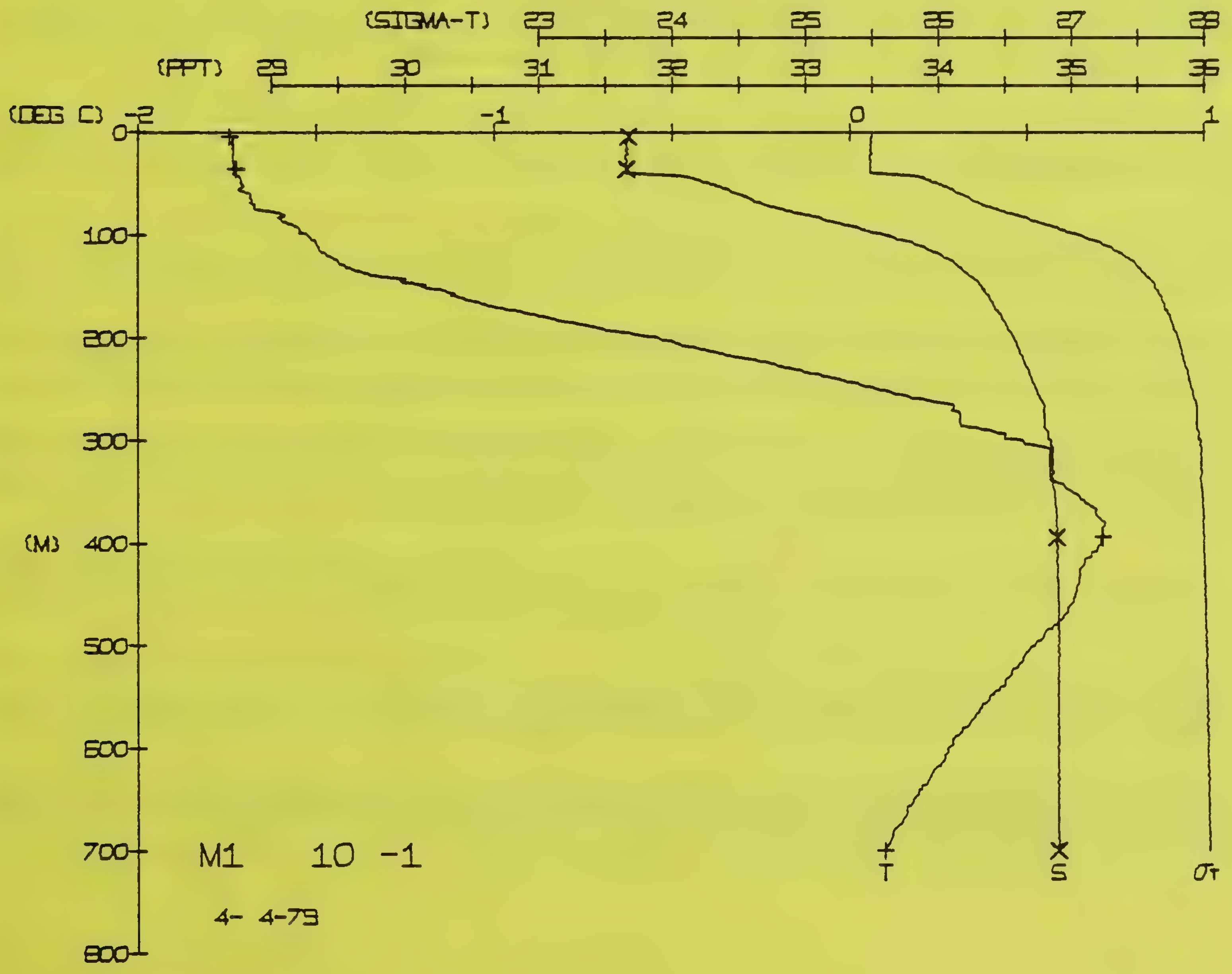
T
S
σT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LAT = 84.6472N LNG =    9.4235W LTER =       0. LGER =       0.
AIR TEMP = -28.3 BAROM = 1038.7 WIND = 218.0 SPEED =    4.2

 DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.74  -1.74   31.68   25.50   248.7   0.000   1436.4
   3.1  -1.74  -1.74   31.68   25.50   248.6   0.008   1436.5
   5.0  -1.73  -1.73   31.67   25.50   249.0   0.013   1436.5
  10.0  -1.74  -1.74   31.67   25.50   248.9   0.025   1436.6
  15.0  -1.73  -1.73   31.67   25.50   249.2   0.038   1436.7
  20.0  -1.74  -1.74   31.67   25.50   249.2   0.050   1436.8
  25.0  -1.73  -1.74   31.67   25.50   248.9   0.063   1436.9
  30.0  -1.74  -1.74   31.67   25.50   248.9   0.075   1436.9
  35.0  -1.74  -1.74   31.67   25.50   248.8   0.088   1437.0
  40.0  -1.73  -1.73   31.69   25.51   247.4   0.100   1437.1
  45.0  -1.72  -1.72   32.09   25.84   216.2   0.112   1437.9
  50.0  -1.70  -1.70   32.29   26.00   200.7   0.122   1438.3
  55.0  -1.70  -1.70   32.36   26.06   195.5   0.132   1438.5
  60.0  -1.69  -1.69   32.46   26.14   188.2   0.142   1438.7
  65.0  -1.68  -1.68   32.56   26.22   180.0   0.151   1439.0
  70.0  -1.63  -1.63   32.69   26.32   170.6   0.160   1439.5
  80.0  -1.63  -1.63   32.95   26.53   150.4   0.176   1440.1
  90.0  -1.53  -1.54   33.24   26.76   128.6   0.190   1441.1
 100.0  -1.52  -1.52   33.53   27.00   106.1   0.202   1441.7
 110.0  -1.52  -1.52   33.80   27.22    85.6   0.212   1442.3
 120.0  -1.48  -1.48   34.00   27.38    69.7   0.220   1442.9
 130.0  -1.42  -1.42   34.13   27.48    60.0   0.226   1443.5
 140.0  -1.34  -1.35   34.23   27.56    52.7   0.232   1444.2
 150.0  -1.21  -1.21   34.31   27.62    46.8   0.237   1445.1
 160.0  -1.09  -1.10   34.37   27.67    42.7   0.242   1445.9
 170.0  -0.92  -0.92   34.43   27.71    38.7   0.246   1447.0
 180.0  -0.72  -0.73   34.48   27.74    36.0   0.249   1448.1
 190.0  -0.72  -0.73   34.52   27.77    33.2   0.253   1448.3
 200.0  -0.61  -0.61   34.55   27.79    31.1   0.256   1449.1
 210.0  -0.47  -0.48   34.59   27.82    28.6   0.259   1449.9
 220.0  -0.33  -0.34   34.63   27.84    26.3   0.262   1450.8
 230.0  -0.22  -0.23   34.66   27.87    24.3   0.264   1451.5
 240.0  -0.06  -0.07   34.70   27.89    22.3   0.267   1452.5
 250.0   0.06   0.05   34.74   27.91    20.4   0.269   1453.2
 260.0   0.16   0.15   34.76   27.92    19.2   0.271   1453.9
 270.0   0.29   0.27   34.79   27.94    17.4   0.273   1454.7
 280.0   0.32   0.30   34.80   27.94    17.4   0.275   1455.0
 290.0   0.36   0.35   34.81   27.95    16.4   0.276   1455.4
 300.0   0.43   0.42   34.82   27.96    16.3   0.278   1455.9
 310.0   0.58   0.57   34.86   27.98    13.9   0.279   1456.8
 320.0   0.56   0.55   34.86   27.98    14.1   0.281   1456.8
 330.0   0.56   0.54   34.86   27.98    14.0   0.282   1457.0
 340.0   0.56   0.54   34.86   27.98    14.2   0.284   1457.2
 350.0   0.60   0.58   34.87   27.99    13.8   0.285   1457.5
 370.0   0.68   0.66   34.89   28.00    12.5   0.288   1458.3
 390.0   0.71   0.69   34.90   28.01    12.1   0.290   1458.7
 410.0   0.68   0.66   34.90   28.01    12.1   0.293   1458.9
 430.0   0.64   0.62   34.90   28.01    11.8   0.295   1459.1
 450.0   0.62   0.60   34.90   28.01    11.5   0.298   1459.3
 470.0   0.60   0.58   34.90   28.01    11.5   0.300   1459.6
 490.0   0.55   0.53   34.91   28.02    10.7   0.302   1459.7
 510.0   0.51   0.48   34.91   28.02    10.3   0.304   1459.8
 530.0   0.45   0.43   34.90   28.02    10.4   0.306   1459.9
 550.0   0.41   0.39   34.91   28.03     9.7   0.308   1460.0
 570.0   0.36   0.34   34.91   28.03     9.3   0.310   1460.2
 590.0   0.31   0.29   34.91   28.04     8.8   0.312   1460.3
 610.0   0.27   0.24   34.91   28.04     8.9   0.314   1460.4
 630.0   0.23   0.21   34.91   28.04     8.4   0.316   1460.6
 650.0   0.18   0.15   34.91   28.04     8.0   0.317   1460.7
 670.0   0.15   0.12   34.91   28.05     7.7   0.319   1460.9
 690.0   0.09   0.06   34.91   28.05     7.3   0.320   1460.9
 701.3   0.07   0.04   34.92   28.06     6.7   0.321   1461.1

                          DEPTH      TEMP.      SALIN

      BOT NUM = 1           3.9     -1.74      31.66
      BOT NUM = 2          36.7     -1.75
      BOT NUM = 3         390.9      0.70      34.89
      BOT NUM = 4         700.4      0.08      34.90
```

```
 FRAM 1  STATION  12(1) CTD   5/APR/1979  700 GMT  CODE = 1
LAT = 84.6387N LNG =    9.2823W LTER =      10. LGER =      14.
AIR TEMP = -30.3 BAROM = 1035.7 WIND = 140.0 SPEED =    2.1

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.74  -1.74   31.69   25.51   248.2   0.000   1436.5
   3.0  -1.74  -1.74   31.68   25.51   248.2   0.007   1436.5
   5.0  -1.74  -1.74   31.67   25.50   248.8   0.012   1436.5
  10.0  -1.74  -1.74   31.67   25.50   249.0   0.025   1436.6
  15.0  -1.74  -1.74   31.67   25.50   248.7   0.038   1436.7
  20.0  -1.74  -1.74   31.67   25.50   248.6   0.050   1436.8
  25.0  -1.73  -1.73   31.68   25.50   248.5   0.063   1436.9
  30.0  -1.74  -1.74   31.67   25.50   248.7   0.075   1436.9
  35.0  -1.73  -1.74   31.67   25.50   249.0   0.088   1437.0
  40.0  -1.74  -1.74   31.69   25.50   248.3   0.100   1437.1
  45.0  -1.72  -1.72   32.15   25.89   211.9   0.112   1437.9
  50.0  -1.70  -1.70   32.34   26.04   197.6   0.122   1438.4
  55.0  -1 69  -1.69   32.44   26.12   189.4   0.132   1438.6
  60.0  -1.77  -1.77   32.53   26.19   182.6   0.141   1438.5
  65.0  -1.70  -1.70   32.61   26.26   176.0   0.150   1439.0
  70.0  -1.69  -1.69   32.70   26.33   169.7   0.159   1439.3
  80.0  -1.56  -1.56   32.94   26.52   151.4   0.175   1440.4
  90.0  -1.51  -1.51   33.23   26.76   128.9   0.189   1441.2
 100.0  -1.51  -1.51   33.53   27.00   106.1   0.201   1441.8
 110.0  -1.52  -1.52   33.82   27.24    83.5   0.211   1442.3
 120.0  -1.48  -1.48   34.00   27.38    70.1   0.218   1442.9
 130.0  -1.43  -1.44   34.13   27.48    60.3   0.225   1443.5
 140.0  -1.35  -1.35   34.22   27.55    53.6   0.231   1444.2
 150.0  -1.21  -1.21   34.32   27.63    46.4   0.236   1445.1
 160.0  -1.11  -1.11   34.37   27.67    42.6   0.240   1445.8
 170.0  -0.94  -0.94   34.43   27.71    39.2   0.244   1446.9
 180.0  -0.83  -0.83   34.46   27.73    37.1   0.248   1447.6
 190.0  -0.62  -0.63   34.53   27.78    32.4   0.252   1448.8
 200.0  -0.53  -0.53   34.56   27.80    30.6   0.255   1449.5
 210.0  -0.43  -0.43   34.60   27.83    28.0   0.258   1450.2
 220.0  -0.29  -0.30   34.63   27.85    26.3   0.261   1451.0
 230.0  -0.17  -0.18   34.66   27.86    24.6   0.263   1451.8
 240.0  -0.06  -0.07   34.70   27.89    22.6   0.266   1452.5
 250.0   0.08   0.07   34.73   27.91    20.9   0.268   1453.3
 260.0   0.23   0.22   34.77   27.93    18.4   0.270   1454.2
 270.0   0.33   0.32   34.80   27.95    17.2   0.272   1454.9
 280.0   0.34   0.33   34.81   27.95    16.8   0.273   1455.1
 290.0   0.37   0.36   34.81   27.95    16.6   0.275   1455.4
 300.0   0.46   0.45   34.83   27.97    15.4   0.277   1456.0
 310.0   0.53   0.51   34.85   27.97    14.8   0.278   1456.5
 320.0   0.59   0.57   34.86   27.98    14.1   0.280   1457.0
 330.0   0.60   0.58   34.86   27.98    14.1   0.281   1457.2
 340.0   0.61   0.59   34.87   27.98    14.0   0.282   1457.4
 350.0   0.65   0.63   34.88   27.99    13.4   0.284   1457.8
 370.0   0.71   0.70   34.89   27.99    13.1   0.286   1458.4
 390.0   0.73   0.72   34.90   28.00    12.5   0.289   1458.8
 410.0   0.71   0.69   34.90   28.00    12.6   0.292   1459.1
 430.0   0.66   0.64   34.90   28.01    12.0   0.294   1459.2
 450.0   0.65   0.63   34.91   28.01    11.5   0.296   1459.5
 470.0   0.64   0.61   34.91   28.02    11.2   0.299   1459.7
 490.0   0.57   0.54   34.91   28.02    10.9   0.301   1459.8
 510.0   0.52   0.49   34.91   28.02    10.5   0.303   1459.9
 530.0   0.46   0.43   34.91   28.03    10.1   0.305   1459.9
 550.0   0.42   0.39   34.91   28.03     9.8   0.307   1460.1
 570.0   0.37   0.35   34.91   28.03     9.3   0.309   1460.2
 590.0   0.32   0.30   34.91   28.04     8.9   0.311   1460.3
 610.0   0.28   0.26   34.90   28.03     9.2   0.313   1460.5
 630.0   0.24   0.22   34.91   28.04     8.8   0.315   1460.6
 650.0   0.19   0.17   34.91   28.04     8.1   0.316   1460.7
 670.0   0.15   0.13   34.91   28.04     8.2   0.318   1460.9
 690.0   0.11   0.08   34.91   28.05     7.7   0.320   1461.0
 702.0   0.09   0.06   34.91   28.05     7.5   0.321   1461.1

                          DEPTH      TEMP.      SALIN

      BOT NUM = 1           3.9     -1.74      31.67
      BOT NUM = 2          36.2     -1.75      31.67
      BOT NUM = 3         394.7      0.73      34.89
      BOT NUM = 4         702.1      0.09      34.90
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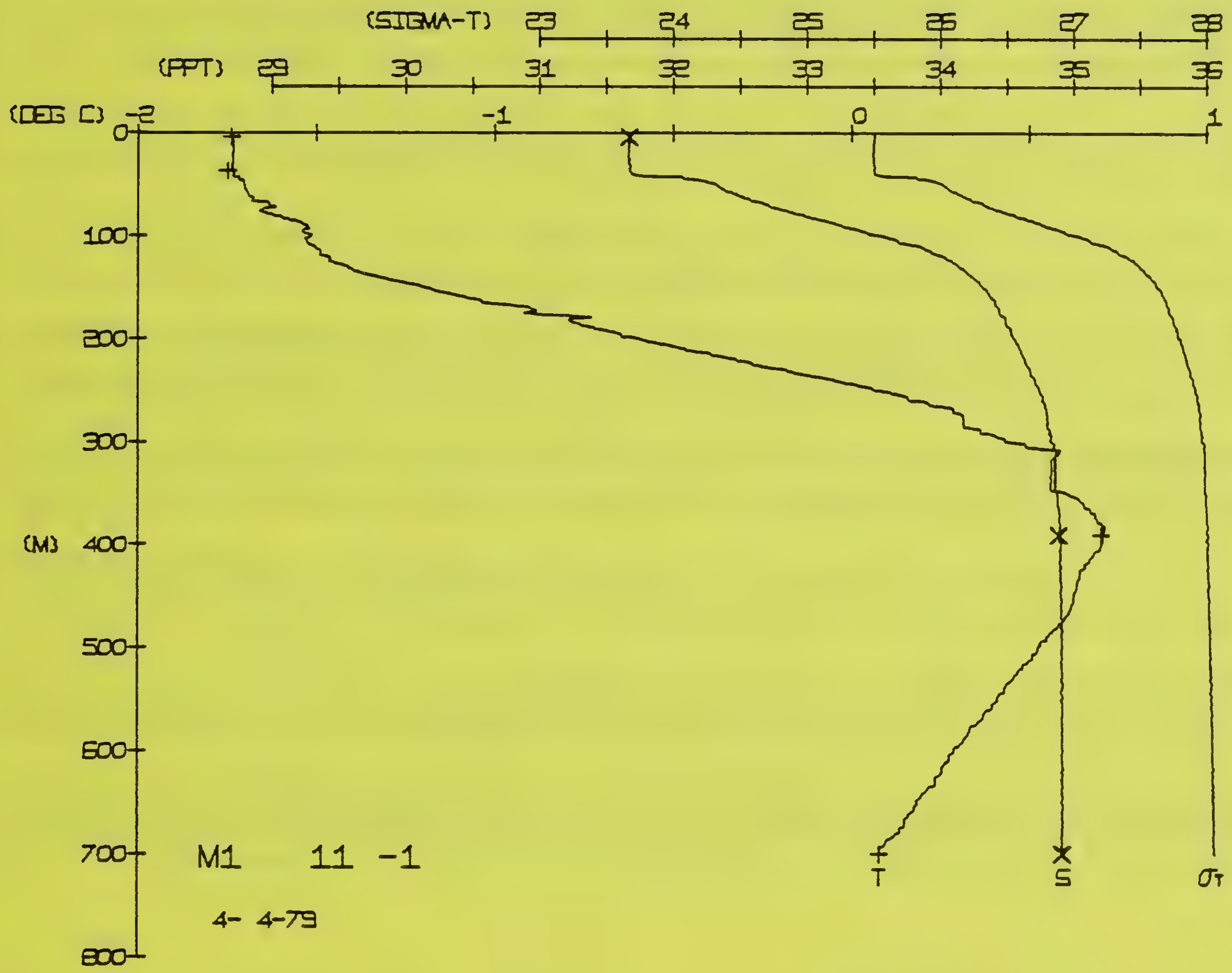
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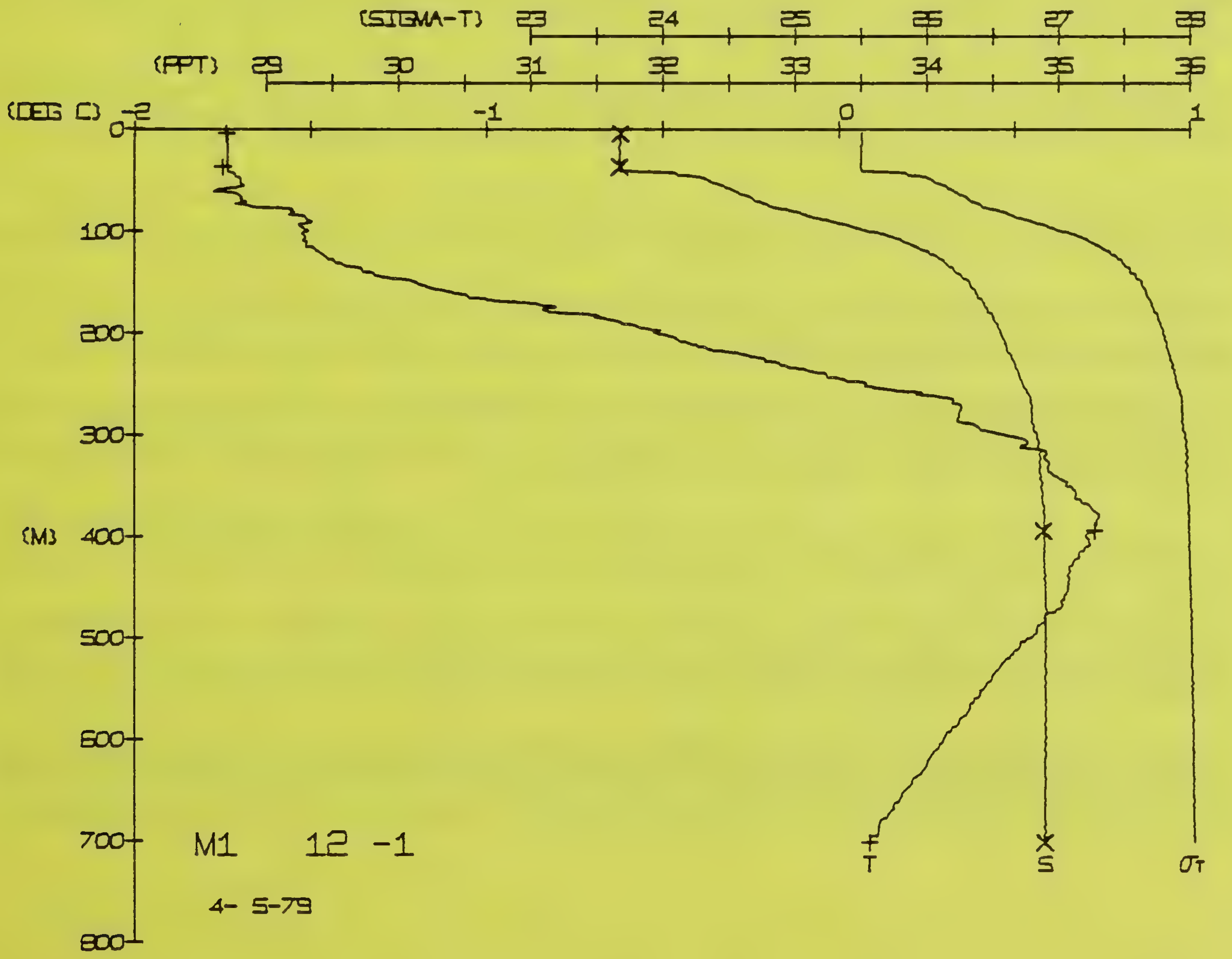
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200
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700
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S
σT
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```
 FRAM 1  STATION  13(1) CTD   5/APR/1979 1835 GMT  CODE = 1
LAT = 84.6364N LNG =   9.2505W LTER =    106. LGER =   124.
AIR TEMP = -30.3 BAROM = 1033.4 WIND = 140.0 SPEED =   2.1

 DEPTH   TEMP   PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0.0  -1.73  -1.73  31.69  25.52  247.3  0.000  1436.5
   3.1  -1.73  -1.73  31.69  25.52  247.2  0.008  1436.5
   5.0  -1.74  -1.74  31.70  25.52  247.1  0.012  1436.5
  10.0  -1.74  -1.74  31.70  25.52  247.0  0.025  1436.6
  15.0  -1.74  -1.74  31.69  25.52  247.3  0.037  1436.7
  20.0  -1.74  -1.74  31.68  25.51  248.0  0.050  1436.8
  25.0  -1.74  -1.74  31.69  25.52  247.4  0.062  1436.9
  30.0  -1.74  -1.74  31.69  25.52  247.3  0.075  1437.0
  35.0  -1.74  -1.74  31.68  25.51  247.8  0.087  1437.0
  40.0  -1.74  -1.74  31.69  25.51  247.6  0.100  1437.1
  45.0  -1.74  -1.74  32.11  25.86  214.8  0.111  1437.8
  50.0  -1.72  -1.72  32.27  25.99  202.4  0.122  1438.2
  55.0  -1.76  -1.76  32.45  26.14  188.3  0.132  1438.3
  60.0  -1.75  -1.75  32.55  26.21  181.0  0.141  1438.6
  65.0  -1.76  -1.76  32.65  26.29  173.1  0.150  1438.8
  70.0  -1.76  -1.76  32.74  26.36  166.4  0.158  1439.0
  80.0  -1.70  -1.70  32.89  26.48  155.0  0.175  1439.6
  90.0  -1.54  -1.54  33.26  26.78  126.9  0.189  1441.1
 100.0  -1.48  -1.48  33.56  27.03  103.6  0.200  1442.0
 110.0  -1.46  -1.46  33.82  27.23   84.3  0.210  1442.6
 120.0  -1.46  -1.46  34.01  27.39   69.4  0.218  1443.0
 130.0  -1.43  -1.43  34.13  27.48   60.0  0.224  1443.5
 140.0  -1.34  -1.35  34.24  27.57   52.0  0.230  1444.2
 150.0  -1.25  -1.25  34.31  27.62   47.3  0.235  1444.9
 160.0  -1.14  -1.15  34.37  27.67   43.0  0.239  1445.7
 170.0  -0.95  -0.95  34.43  27.71   39.0  0.244  1446.8
 180.0  -0.87  -0.87  34.47  27.74   35.9  0.247  1447.4
 190.0  -0.55  -0.56  34.54  27.78   32.3  0.251  1449.2
 200.0  -0.45  -0.46  34.57  27.80   30.4  0.254  1449.8
 210.0  -0.33  -0.34  34.60  27.82   28.8  0.257  1450.6
 220.0  -0.23  -0.24  34.64  27.85   26.1  0.260  1451.3
 230.0   0.01   0.00  34.69  27.88   23.4  0.262  1452.6
 240.0   0.12   0.11  34.73  27.91   20.9  0.264  1453.4
 250.0   0.23   0.22  34.76  27.92   19.3  0.266  1454.0
 260.0   0.30   0.29  34.79  27.94   17.5  0.268  1454.6
 270.0   0.34   0.33  34.80  27.95   17.0  0.270  1454.9
 280.0   0.36   0.34  34.80  27.95   17.2  0.272  1455.2
 290.0   0.45   0.44  34.83  27.97   15.5  0.273  1455.8
 300.0   0.53   0.52  34.85  27.98   14.3  0.275  1456.4
 310.0   0.58   0.57  34.86  27.98   14.0  0.276  1456.8
 320.0   0.59   0.58  34.87  27.98   13.9  0.278  1457.0
 330.0   0.59   0.57  34.86  27.98   13.9  0.279  1457.1
 340.0   0.62   0.61  34.87  27.99   13.5  0.281  1457.5
 350.0   0.66   0.64  34.88  27.99   13.1  0.282  1457.8
 370.0   0.73   0.71  34.89  28.00   12.9  0.285  1458.5
 390.0   0.73   0.71  34.90  28.00   12.5  0.287  1458.8
 410.0   0.66   0.64  34.90  28.00   12.2  0.290  1458.8
 430.0   0.62   0.60  34.90  28.01   11.6  0.292  1459.0
 450.0   0.59   0.57  34.90  28.01   11.3  0.294  1459.2
 470.0   0.56   0.54  34.91  28.02   10.7  0.297  1459.4
 490.0   0.48   0.45  34.90  28.02   10.7  0.299  1459.3
 510.0   0.40   0.38  34.90  28.02   10.2  0.301  1459.3
 530.0   0.34   0.32  34.90  28.03    9.9  0.303  1459.4
 550.0   0.29   0.27  34.90  28.03    9.7  0.305  1459.5
 570.0   0.27   0.25  34.90  28.03    9.0  0.307  1459.7
 590.0   0.19   0.17  34.90  28.03    8.9  0.309  1459.7
 610.0   0.16   0.13  34.90  28.04    8.6  0.310  1459.9
 630.0   0.14   0.11  34.90  28.04    8.3  0.312  1460.1
 650.0   0.12   0.09  34.91  28.05    7.7  0.314  1460.4
 670.0   0.11   0.08  34.90  28.04    8.1  0.315  1460.7
 690.0   0.07   0.04  34.91  28.05    7.4  0.317  1460.8
 702.4   0.05   0.02  34.92  28.06    6.3  0.318  1461.0

                      DEPTH     TEMP.     SALIN

     BOT NUM = 1        3.9     -1.73     31.69
     BOT NUM = 2      389.5      0.74     34.89
     BOT NUM = 3      701.1      0.06     34.90
```

```
 FRAM 1  STATION  14(1) CTD   6/APR/1979  707 GMT  CODE = 1
LAT = 84.6375N LNG =   9.1840W LTER =      0. LGER =     0.
AIR TEMP = -30.9 BAROM = 1031.4 WIND = 145.0 SPEED =   2.2

DEPTH   TEMP   PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0.0  -1.72  -1.72  31.70  25.52  247.3  0.000  1436.5
   3.0  -1.72  -1.72  31.70  25.52  247.2  0.007  1436.6
   5.0  -1.73  -1.73  31.70  25.53  246.6  0.012  1436.6
  10.0  -1.74  -1.74  31.69  25.52  247.4  0.025  1436.6
  15.0  -1.74  -1.74  31.69  25.51  247.7  0.037  1436.7
  20.0  -1.74  -1.74  31.69  25.51  247.6  0.050  1436.8
  25.0  -1.74  -1.74  31.69  25.51  247.7  0.062  1436.9
  30.0  -1.74  -1.74  31.69  25.51  247.5  0.075  1437.0
  35.0  -1.74  -1.74  31.69  25.51  247.7  0.087  1437.0
  40.0  -1.74  -1.74  31.69  25.51  247.5  0.100  1437.1
  45.0  -1.73  -1.73  31.89  25.68  231.4  0.112  1437.5
  50.0  -1.75  -1.75  32.24  25.96  204.9  0.123  1438.0
  55.0  -1.75  -1.75  32.39  26.08  193.7  0.133  1438.3
  60.0  -1.72  -1.73  32.52  26.18  183.6  0.142  1438.7
  65.0  -1.70  -1.70  32.62  26.27  175.6  0.151  1439.0
  70.0  -1.68  -1.68  32.70  26.33  169.7  0.160  1439.3
  80.0  -1.63  -1.63  32.95  26.53  150.4  0.176  1440.1
  90.0  -1.53  -1.53  33.31  26.82  123.0  0.190  1441.2
 100.0  -1.48  -1.49  33.57  27.03  103.2  0.201  1442.0
 110.0  -1.47  -1.47  33.81  27.22   84.8  0.211  1442.5
 120.0  -1.46  -1.46  33.99  27.37   70.7  0.219  1443.0
 130.0  -1.44  -1.44  34.12  27.47   61.3  0.225  1443.4
 140.0  -1.32  -1.33  34.23  27.56   53.1  0.231  1444.3
 150.0  -1.22  -1.23  34.30  27.61   48.0  0.236  1445.0
 160.0  -1.14  -1.14  34.36  27.66   43.6  0.241  1445.7
 170.0  -0.99  -0.99  34.42  27.71   39.1  0.245  1446.6
 180.0  -0.84  -0.85  34.48  27.75   35.5  0.249  1447.6
 190.0  -0.73  -0.73  34.51  27.77   33.5  0.252  1448.3
 200.0  -0.49  -0.50  34.56  27.80   30.8  0.255  1449.6
 210.0  -0.26  -0.27  34.61  27.82   28.4  0.258  1450.9
 220.0  -0.12  -0.13  34.65  27.85   25.7  0.261  1451.8
 230.0  -0.01  -0.01  34.68  27.87   24.0  0.264  1452.5
 240.0   0.10   0.09  34.72  27.90   21.9  0.266  1453.2
 250.0   0.22   0.21  34.76  27.92   19.6  0.268  1454.0
 260.0   0.31   0.30  34.79  27.94   17.9  0.270  1454.6
 270.0   0.33   0.32  34.79  27.94   17.5  0.272  1454.9
 280.0   0.39   0.38  34.81  27.95   16.6  0.274  1455.4
 290.0   0.49   0.47  34.84  27.97   14.9  0.275  1456.0
 300.0   0.48   0.47  34.85  27.97   14.7  0.277  1456.1
 310.0   0.48   0.46  34.81  27.97   14.9  0.278  1456.3
 320.0   0.49   0.47  34.85  27.98   14.7  0.280  1456.5
 330.0   0.56   0.54  34.86  27.98   14.4  0.281  1457.0
 340.0   0.56   0.55  34.87  27.99   13.6  0.282  1457.2
 350.0   0.58   0.56  34.87  27.99   13.6  0.284  1457.4
 370.0   0.57   0.55  34.87  27.99   13.3  0.287  1457.7
 390.0   0.59   0.57  34.88  28.00   12.7  0.289  1458.2
 410.0   0.54   0.53  34.88  28.00   12.3  0.292  1458.3
 430.0   0.53   0.51  34.89  28.01   12.0  0.294  1458.6
 450.0   0.51   0.49  34.89  28.01   11.5  0.297  1458.8
 470.0   0.47   0.45  34.89  28.01   11.4  0.299  1459.0
 490.0   0.43   0.41  34.89  28.02   10.8  0.301  1459.1
 510.0   0.37   0.35  34.89  28.02   10.6  0.303  1459.2
 530.0   0.32   0.30  34.89  28.02   10.3  0.305  1459.3
 550.0   0.29   0.26  34.89  28.03    9.9  0.307  1459.5
 570.0   0.25   0.22  34.90  28.03    9.5  0.309  1459.6
 590.0   0.20   0.18  34.90  28.03    9.0  0.311  1459.8
 610.0   0.17   0.14  34.90  28.04    8.7  0.313  1460.0
 630.0   0.15   0.12  34.90  28.04    8.6  0.315  1460.2
 650.0   0.13   0.10  34.90  28.04    8.1  0.316  1460.4
 670.0   0.09   0.06  34.90  28.04    8.0  0.318  1460.6
 690.0   0.07   0.04  34.90  28.05    7.7  0.320  1460.8
 702.4   0.05   0.02  34.92  28.06    6.2  0.321  1461.0

                      DEPTH     TEMP.     SALIN

     BOT NUM = 1        4.4     -1.71     31.69
     BOT NUM = 2       37.0     -1.75     31.68
     BOT NUM = 3      389.3      0.60     34.88
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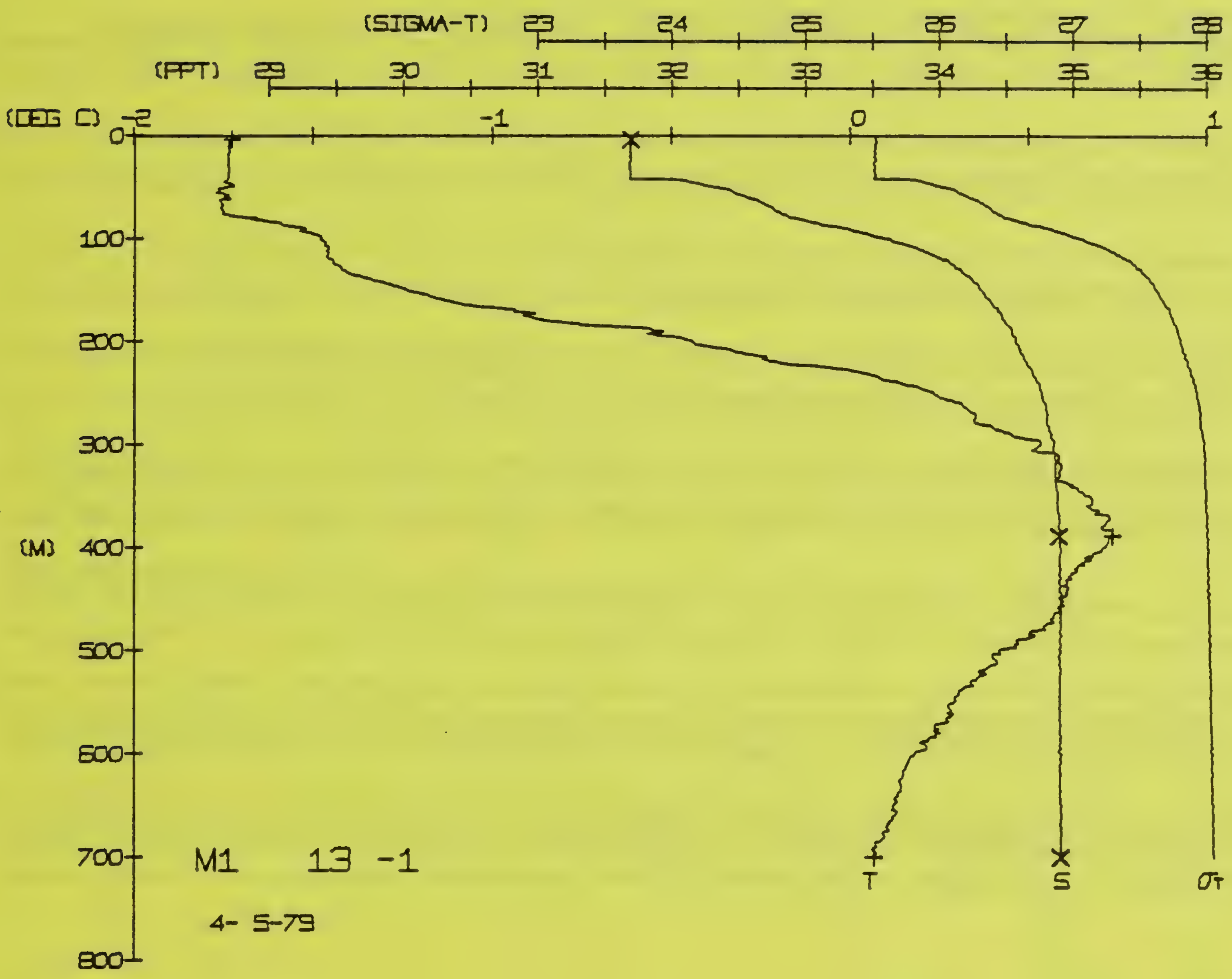
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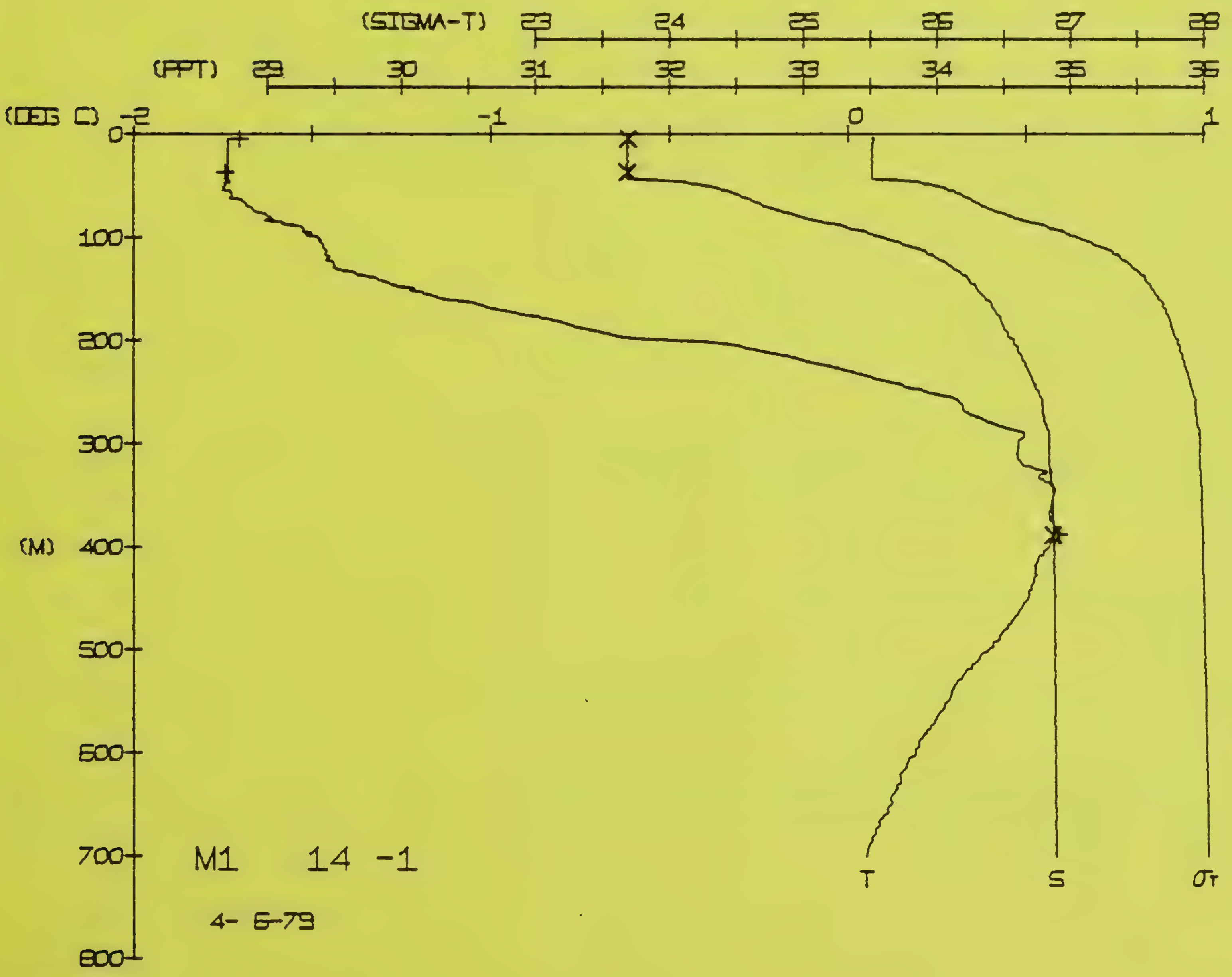
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
T
S
σT
M1 13 -1
4- 5-79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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
T
S
σT
M1 14 -1
4- 6-79

```
                                         FRAM 1  STATION  15(1) CTD   6/APR/1979 1833 GMT  CODE = 1
                                         LAT = 84.6383N LNG =    9.1456W LTER =      1. LGER =      2.
                                         AIR TEMP = -26.6 BAROM = 1029.8 WIND = 175.0 SPEED =    3.1

DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND             DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0  -1.74  -1.74   31.71   25.53   246.2   0.000   1436.5
  3.0  -1.74  -1.74   31.71   25.53   246.2   0.007   1436.5
  5.0  -1.74  -1.74   31.71   25.53   246.0   0.012   1436.6
 10.0  -1.74  -1.74   31.70   25.53   246.4   0.025   1436.6
 15.0  -1.74  -1.74   31.70   25.52   246.7   0.037   1436.7
 20.0  -1.74  -1.74   31.70   25.52   246.7   0.050   1436.8
 25.0  -1.74  -1.74   31.70   25.52   246.8   0.062   1436.9
 30.0  -1.74  -1.74   31.70   25.52   246.8   0.074   1437.0
 35.0  -1.73  -1.74   31.69   25.52   247.0   0.087   1437.1
 40.0  -1.74  -1.74   31.70   25.52   246.7   0.099   1437.1
 45.0  -1.75  -1.75   32.04   25.80   220.1   0.111   1437.6
 50.0  -1.76  -1.76   32.28   25.99   201.7   0.122   1438.0
 55.0  -1.72  -1.72   32.44   26.12   189.6   0.132   1438.5
 60.0  -1.73  -1.73   32.55   26.21   181.3   0.141   1438.7
 65.0  -1.69  -1.69   32.64   26.28   174.3   0.150   1439.1
 70.0  -1.67  -1.67   32.76   26.38   164.8   0.158   1439.4
 80.0  -1.62  -1.62   32.98   26.56   147.7   0.174   1440.2
 90.0  -1.56  -1.56   33.27   26.79   126.2   0.188   1441.0
100.0  -1.47  -1.47   33.63   27.08    98.4   0.199   1442.1
110.0  -1.46  -1.47   33.85   27.26    81.7   0.208   1442.6
120.0  -1.45  -1.46   34.00   27.38    69.9   0.216   1443.0
130.0  -1.43  -1.43   34.12   27.48    60.6   0.223   1443.5
140.0  -1.34  -1.35   34.22   27.56    53.2   0.228   1444.2
150.0  -1.23  -1.23   34.31   27.62    47.2   0.233   1445.0
160.0  -1.09  -1.09   34.38   27.67    42.1   0.238   1445.9
170.0  -0.97  -0.98   34.43   27.71    39.1   0.242   1446.7
180.0  -0.84  -0.85   34.47   27.74    36.0   0.246   1447.6
190.0  -0.61  -0.62   34.53   27.78    32.8   0.249   1448.9
200.0  -0.47  -0.48   34.57   27.80    30.4   0.253   1449.7
210.0  -0.30  -0.31   34.61   27.83    28.0   0.255   1450.7
220.0  -0.09  -0.10   34.66   27.86    25.4   0.258   1451.9
230.0  -0.01  -0.02   34.70   27.88    23.0   0.261   1452.5
240.0   0.05   0.04   34.72   27.90    21.6   0.263   1453.0
250.0   0.21   0.20   34.76   27.92    19.2   0.265   1453.9
260.0   0.33   0.32   34.79   27.94    17.5   0.267   1454.7
270.0   0.33   0.32   34.80   27.94    17.5   0.269   1454.9
280.0   0.40   0.39   34.81   27.95    16.6   0.270   1455.4
290.0   0.49   0.48   34.85   27.98    14.5   0.272   1456.0
300.0   0.48   0.47   34.85   27.98    14.5   0.273   1456.1
310.0   0.48   0.47   34.85   27.98    14.5   0.275   1456.3
320.0   0.51   0.50   34.86   27.98    14.1   0.276   1456.6
330.0   0.54   0.52   34.86   27.98    13.8   0.278   1456.9
340.0   0.56   0.55   34.87   27.99    13.2   0.279   1457.2
350.0   0.58   0.56   34.87   27.99    13.2   0.280   1457.4
370.0   0.57   0.55   34.88   27.99    13.0   0.283   1457.7
390.0   0.59   0.57   34.88   28.00    12.6   0.286   1458.2
410.0   0.54   0.52   34.88   28.00    12.2   0.288   1458.3
430.0   0.52   0.50   34.89   28.01    11.7   0.290   1458.5
450.0   0.50   0.48   34.89   28.01    11.3   0.293   1458.8
470.0   0.46   0.44   34.89   28.01    11.2   0.295   1458.9
490.0   0.42   0.40   34.90   28.02    10.6   0.297   1459.1
510.0   0.37   0.35   34.89   28.02    10.4   0.299   1459.2
530.0   0.32   0.30   34.89   28.02    10.1   0.301   1459.3
550.0   0.30   0.27   34.90   28.03     9.6   0.303   1459.5
570.0   0.24   0.22   34.90   28.04     8.9   0.305   1459.6
590.0   0.22   0.19   34.90   28.03     9.0   0.307   1459.8
610.0   0.18   0.15   34.90   28.04     8.4   0.309   1460.0
630.0   0.15   0.12   34.90   28.04     8.6   0.311   1460.2
650.0   0.12   0.09   34.90   28.04     8.3   0.312   1460.4
670.0   0.10   0.07   34.91   28.05     7.5   0.314   1460.6
690.0   0.08   0.05   34.91   28.05     7.6   0.315   1460.9
710.0   0.04   0.01   34.91   28.05     6.9   0.317   1461.0
730.0   0.02  -0.02   34.91   28.05     6.8   0.318   1461.3
750.0  -0.01  -0.04   34.91   28.06     6.5   0.320   1461.5
800.0  -0.06  -0.09   34.92   28.06     5.9   0.323   1462.1
                                                                 DEPTH       TEMP.      SALIN

                                                 BOT NUM = 1       3.5      -1.74      31.70
                                                 BOT NUM = 2      34.7      -1.75      31.69
                                                 BOT NUM = 3     390.7       0.59      34.87
                                                 BOT NUM = 4     698.6       0.05      34.90
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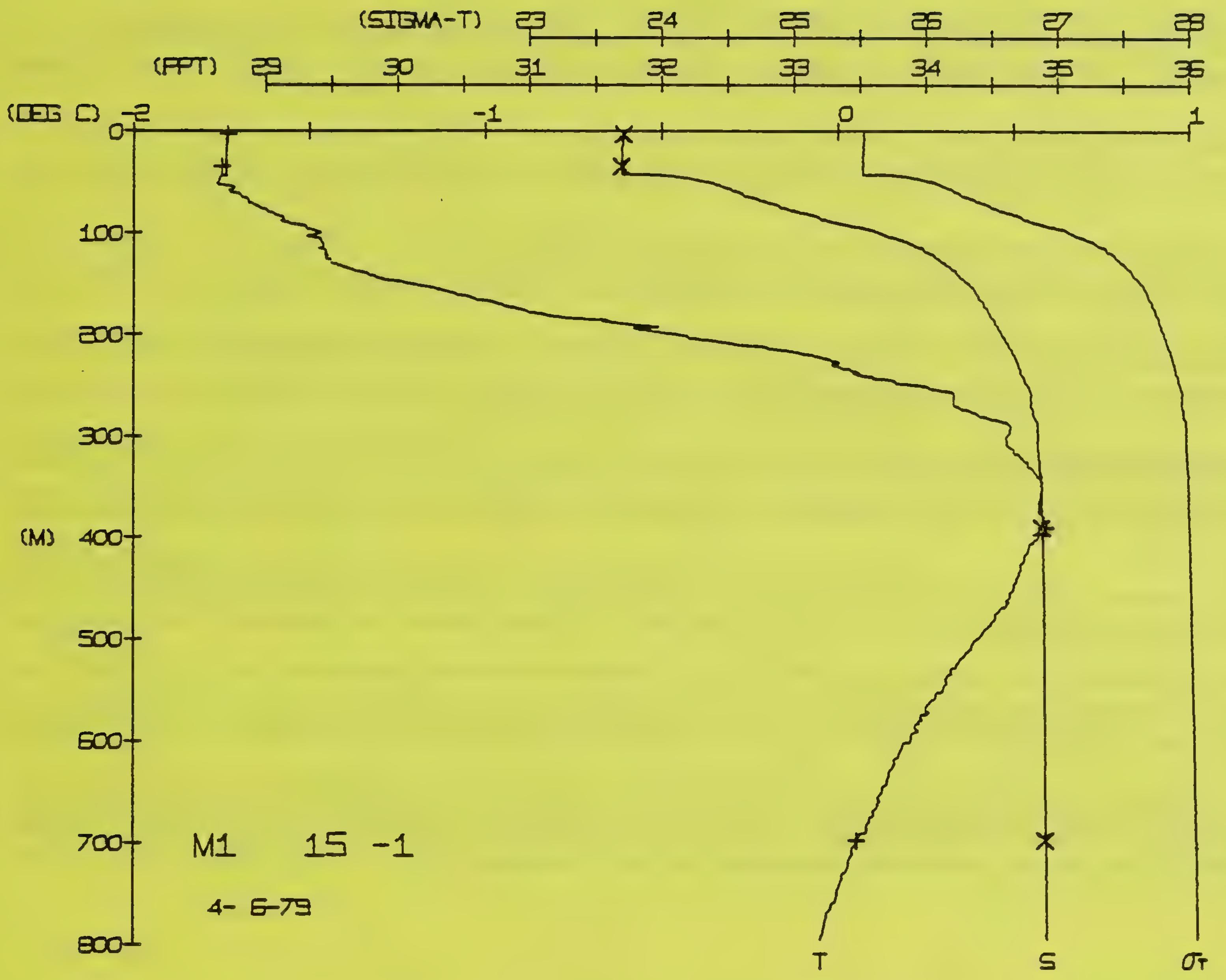
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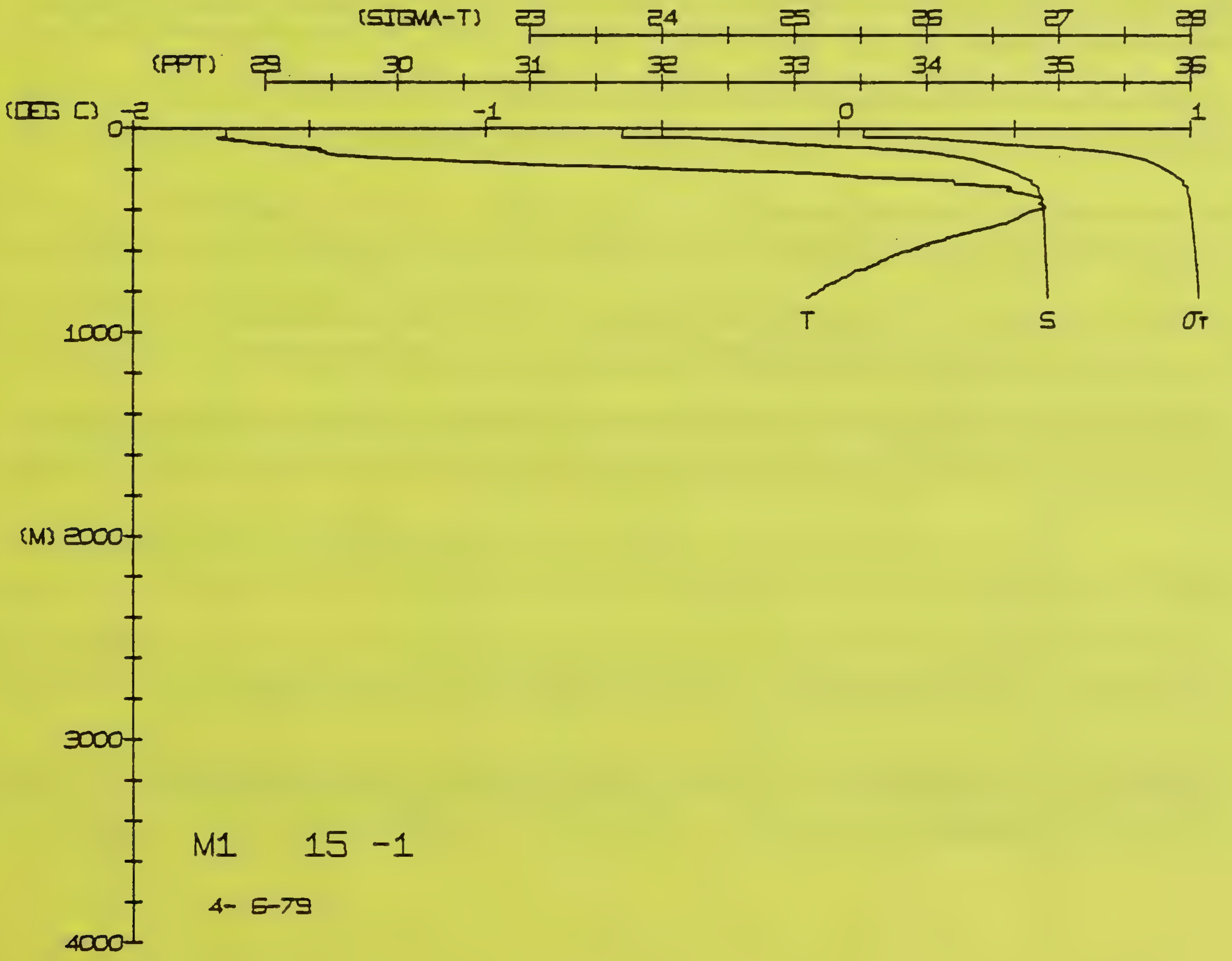
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 15 -1
4- 6-79
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
1000
(M) 2000
3000
4000
T
S
σT
M1 15 -1
4- 6-79

```
  FRAM 1  STATION  16(1) CTD    7/APR/1979   654 GMT   CODE = 1
 LAT = 84.6366N LNG =    9.1475W LTER =      1.  LGER =      2.
 AIR TEMP = -26.6 BAROM = 1028.3 WIND = 175.0 SPEED =    3.1

  DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

    0.0   -1.74   -1.74   31.72   25.54   245.3   0.000   1436.5
    3.1   -1.74   -1.74   31.72   25.54   245.3   0.008   1436.6
    5.0   -1.74   -1.74   31.72   25.54   245.1   0.012   1436.6
   10.0   -1.74   -1.74   31.72   25.54   245.5   0.025   1436.7
   15.0   -1.74   -1.74   31.71   25.53   245.8   0.037   1436.7
   20.0   -1.74   -1.74   31.71   25.53   245.8   0.049   1436.8
   25.0   -1.74   -1.74   31.71   25.53   246.0   0.062   1436.9
   30.0   -1.73   -1.74   31.71   25.53   246.1   0.074   1437.0
   35.0   -1.74   -1.74   31.71   25.53   245.9   0.087   1437.1
   40.0   -1.74   -1.74   31.71   25.53   245.9   0.099   1437.2
   45.0   -1.74   -1.74   31.89   25.67   232.2   0.111   1437.5
   50.0   -1.75   -1.75   32.32   26.03   198.6   0.122   1438.1
   55.0   -1.73   -1.73   32.46   26.14   188.0   0.132   1438.5
   60.0   -1.68   -1.68   32.58   26.23   178.9   0.141   1439.0
   65.0   -1.75   -1.75   32.65   26.29   173.2   0.150   1438.8
   70.0   -1.70   -1.71   32.72   26.35   168.0   0.158   1439.2
   80.0   -1.58   -1.58   32.95   26.53   150.7   0.174   1440.3
   90.0   -1.54   -1.54   33.22   26.75   130.0   0.189   1441.0
  100.0   -1.53   -1.53   33.59   27.05   101.7   0.200   1441.8
  110.0   -1.49   -1.49   33.82   27.23    83.9   0.210   1442.5
  120.0   -1.46   -1.46   33.99   27.37    70.8   0.217   1443.0
  130.0   -1.43   -1.43   34.13   27.49    59.8   0.224   1443.5
  140.0   -1.36   -1.36   34.21   27.54    54.4   0.230   1444.1
  150.0   -1.25   -1.26   34.30   27.61    48.0   0.235   1444.9
  160.0   -1.12   -1.12   34.36   27.66    43.3   0.239   1445.8
  170.0   -0.92   -0.93   34.42   27.70    39.8   0.244   1446.9
  180.0   -0.87   -0.87   34.47   27.74    36.4   0.248   1447.4
  190.0   -0.69   -0.69   34.52   27.77    33.4   0.251   1448.5
  200.0   -0.55   -0.56   34.56   27.80    30.2   0.254   1449.4
  210.0   -0.40   -0.40   34.60   27.83    28.1   0.257   1450.3
  220.0   -0.22   -0.23   34.65   27.85    25.6   0.260   1451.3
  230.0   -0.02   -0.03   34.69   27.88    23.5   0.262   1452.5
  240.0    0.10    0.09   34.72   27.90    21.6   0.265   1453.2
  250.0    0.25    0.24   34.77   27.92    19.3   0.267   1454.2
  260.0    0.33    0.32   34.79   27.94    17.5   0.269   1454.7
  270.0    0.32    0.31   34.80   27.94    17.4   0.270   1454.9
  280.0    0.40    0.39   34.81   27.95    16.5   0.272   1455.4
  290.0    0.48    0.47   34.84   27.97    15.1   0.274   1455.9
  300.0    0.48    0.47   34.84   27.97    14.9   0.275   1456.1
  310.0    0.48    0.47   34.85   27.98    14.6   0.277   1456.3
  320.0    0.53    0.52   34.86   27.98    14.2   0.278   1456.7
  330.0    0.54    0.52   34.86   27.98    14.0   0.280   1456.9
  340.0    0.56    0.55   34.87   27.99    13.4   0.281   1457.2
  350.0    0.58    0.56   34.87   27.99    13.5   0.282   1457.4
  370.0    0.57    0.56   34.88   27.99    13.0   0.285   1457.8
  390.0    0.59    0.57   34.88   28.00    12.6   0.288   1458.2
  410.0    0.55    0.53   34.88   28.00    12.3   0.290   1458.3
  430.0    0.52    0.50   34.89   28.01    11.9   0.293   1458.5
  450.0    0.50    0.48   34.89   28.01    11.3   0.295   1458.8
  470.0    0.47    0.45   34.89   28.01    11.5   0.297   1459.0
  490.0    0.43    0.40   34.89   28.02    10.8   0.299   1459.1
  510.0    0.37    0.35   34.90   28.02    10.3   0.302   1459.2
  530.0    0.33    0.31   34.90   28.02    10.0   0.304   1459.3
  550.0    0.29    0.27   34.90   28.03     9.6   0.306   1459.5
  570.0    0.27    0.24   34.90   28.03     9.4   0.308   1459.7
  590.0    0.22    0.19   34.90   28.03     9.0   0.309   1459.8
  610.0    0.18    0.15   34.90   28.04     8.7   0.311   1460.0
  630.0    0.14    0.12   34.90   28.04     8.3   0.313   1460.2
  650.0    0.13    0.10   34.91   28.04     7.9   0.315   1460.4
  670.0    0.10    0.07   34.91   28.04     7.8   0.316   1460.6
  690.0    0.07    0.04   34.90   28.05     7.7   0.318   1460.8
  700.1    0.06    0.03   34.92   28.06     6.8   0.318   1461.0

                        DEPTH      TEMP.       SALIN

      BOT NUM = 1         3.9      -1.75       31.71
      BOT NUM = 2       390.0       0.60       34.87
      BOT NUM = 3       703.5       0.05
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```
  FRAM 1  STATION  17(1) CTD    7/APR/1979 1903 GMT   CODE = 1
 LAT = 84.6324N LNG =    9.1386W LTER =      0.  LGER =      0.
 AIR TEMP = -24.8 BAROM = 1030.0 WIND = 198.0 SPEED =    1.4

  DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

    0.0   -1.73   -1.73   31.69   25.52   247.3   0.000   1436.5
    3.0   -1.73   -1.73   31.69   25.52   247.3   0.007   1436.5
    5.0   -1.73   -1.73   31.71   25.53   246.1   0.012   1436.6
   10.0   -1.73   -1.73   31.71   25.53   245.7   0.025   1436.7
   15.0   -1.73   -1.73   31.70   25.53   246.5   0.037   1436.7
   20.0   -1.73   -1.73   31.71   25.53   246.1   0.050   1436.8
   25.0   -1.73   -1.73   31.70   25.53   246.3   0.062   1436.9
   30.0   -1.73   -1.73   31.71   25.53   246.0   0.074   1437.0
   35.0   -1.73   -1.73   31.71   25.53   246.1   0.087   1437.1
   40.0   -1.73   -1.73   31.71   25.53   245.8   0.099   1437.2
   45.0   -1.76   -1.76   32.21   25.94   207.1   0.111   1437.8
   50.0   -1.69   -1.69   32.42   26.10   191.3   0.121   1438.5
   55.0   -1.74   -1.74   32.50   26.17   184.8   0.130   1438.5
   60.0   -1.73   -1.73   32.59   26.24   178.3   0.139   1438.8
   65.0   -1.73   -1.73   32.68   26.31   171.2   0.148   1438.9
   70.0   -1.70   -1.70   32.74   26.37   166.1   0.157   1439.3
   80.0   -1.63   -1.63   32.89   26.49   154.7   0.173   1440.0
   90.0   -1.62   -1.63   33.22   26.75   129.8   0.187   1440.6
  100.0   -1.50   -1.51   33.57   27.03   103.4   0.199   1441.9
  110.0   -1.50   -1.50   33.83   27.24    82.8   0.208   1442.4
  120.0   -1.47   -1.47   34.03   27.40    69.1   0.216   1443.0
  130.0   -1.42   -1.43   34.14   27.49    59.3   0.222   1443.5
  140.0   -1.35   -1.35   34.23   27.56    52.9   0.228   1444.2
  150.0   -1.23   -1.24   34.29   27.61    48.1   0.233   1445.0
  160.0   -1.13   -1.13   34.36   27.66    43.2   0.238   1445.7
  170.0   -0.97   -0.98   34.44   27.72    38.3   0.242   1446.7
  180.0   -0.68   -0.68   34.49   27.75    35.4   0.245   1448.4
  190.0   -0.70   -0.71   34.51   27.77    33.5   0.249   1448.4
  200.0   -0.51   -0.52   34.58   27.81    29.5   0.252   1449.6
  210.0   -0.33   -0.34   34.62   27.84    27.3   0.255   1450.6
  220.0   -0.23   -0.24   34.65   27.86    25.4   0.258   1451.3
  230.0   -0.02   -0.02   34.69   27.88    23.4   0.260   1452.5
  240.0    0.10    0.09   34.73   27.90    21.2   0.262   1453.2
  250.0    0.19    0.18   34.76   27.92    19.6   0.264   1453.9
  260.0    0.32    0.31   34.80   27.94    17.3   0.266   1454.7
  270.0    0.34    0.33   34.80   27.95    16.9   0.268   1454.9
  280.0    0.41    0.40   34.82   27.96    16.3   0.270   1455.5
  290.0    0.52    0.51   34.85   27.97    14.7   0.271   1456.2
  300.0    0.52    0.50   34.85   27.98    14.5   0.273   1456.3
  310.0    0.57    0.56   34.86   27.98    14.1   0.274   1456.7
  320.0    0.59    0.58   34.86   27.98    14.1   0.276   1457.0
  330.0    0.55    0.54   34.87   27.99    13.7   0.277   1457.0
  340.0    0.57    0.56   34.87   27.99    13.1   0.278   1457.2
  350.0    0.58    0.57   34.87   27.99    13.2   0.280   1457.5
  370.0    0.58    0.56   34.88   27.99    13.0   0.282   1457.8
  390.0    0.57    0.56   34.88   28.00    12.7   0.285   1458.1
  410.0    0.53    0.51   34.89   28.01    11.9   0.287   1458.2
  430.0    0.52    0.50   34.89   28.01    11.5   0.290   1458.5
  450.0    0.50    0.48   34.89   28.01    11.4   0.292   1458.8
  470.0    0.47    0.45   34.89   28.02    11.0   0.294   1459.0
  490.0    0.41    0.39   34.90   28.02    10.6   0.297   1459.0
  510.0    0.37    0.35   34.90   28.02    10.3   0.299   1459.2
  530.0    0.34    0.31   34.90   28.02    10.1   0.301   1459.4
  550.0    0.31    0.28   34.90   28.03     9.4   0.303   1459.6
  570.0    0.26    0.24   34.90   28.03     9.1   0.305   1459.7
  590.0    0.20    0.18   34.90   28.04     8.8   0.306   1459.8
  610.0    0.18    0.15   34.90   28.04     8.6   0.308   1460.0
  630.0    0.15    0.12   34.90   28.04     8.6   0.310   1460.2
  650.0    0.13    0.10   34.90   28.04     8.2   0.312   1460.4
  670.0    0.10    0.07   34.90   28.04     7.8   0.313   1460.6
  690.0    0.06    0.03   34.91   28.05     7.3   0.315   1460.8
  698.3    0.06    0.03   34.91   28.05     7.6   0.315   1460.9

                        DEPTH      TEMP.       SALIN

      BOT NUM = 1         4.1                  31.72
      BOT NUM = 2        35.1      -1.72
      BOT NUM = 3       390.7       0.58       34.88
      BOT NUM = 4       701.2       0.06       34.90
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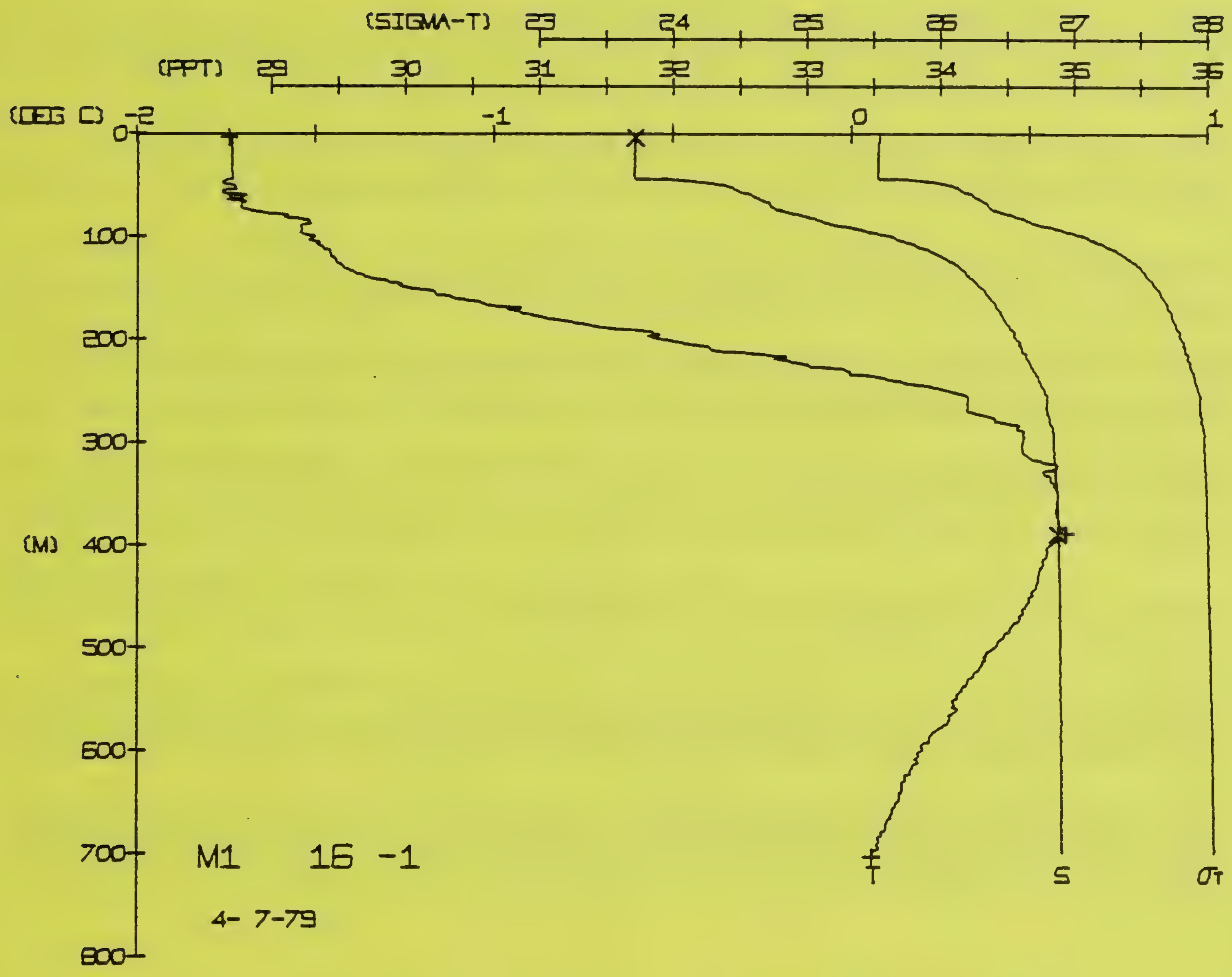
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300
(M) 400
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600
700
800
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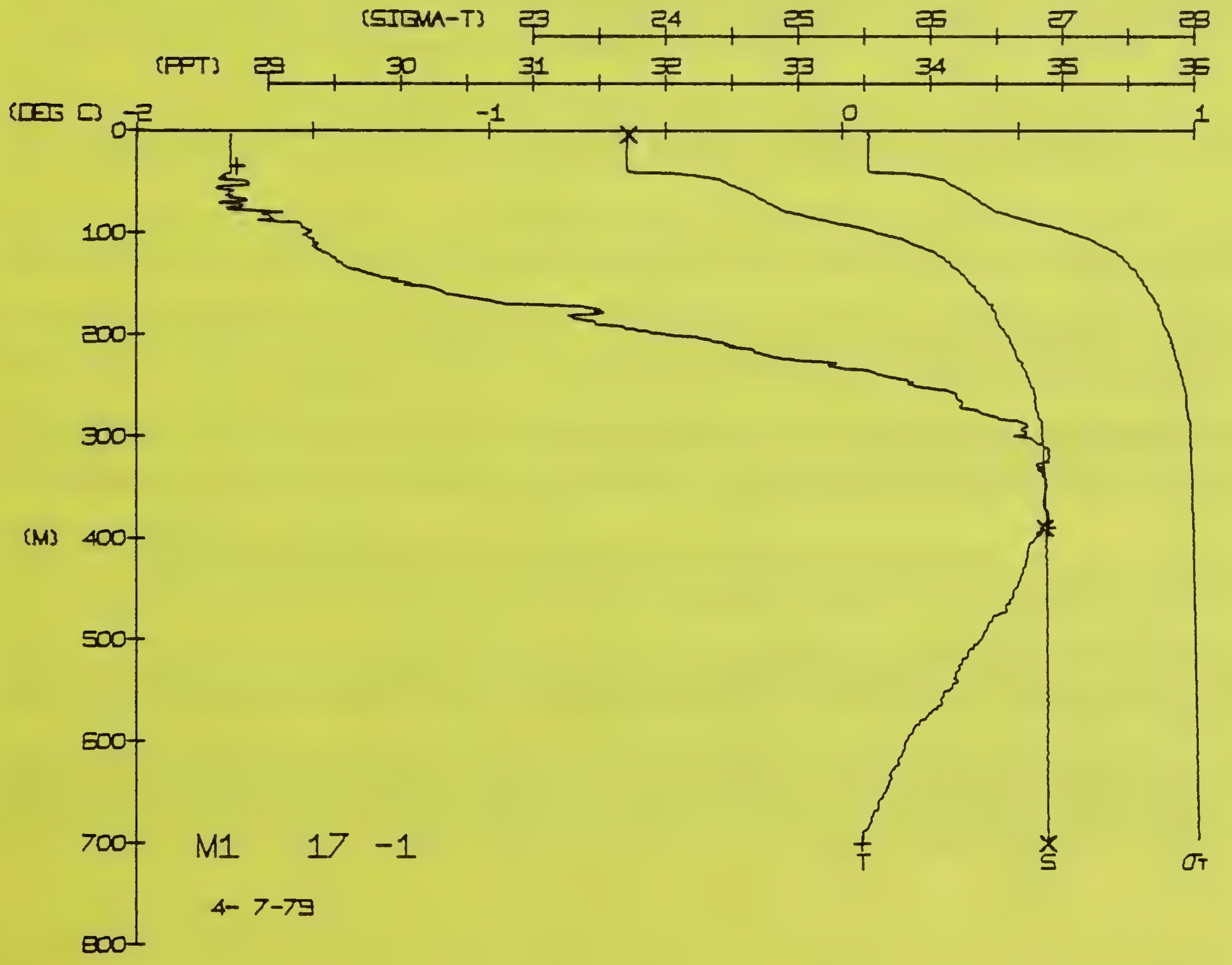
4- 7-79
T
S
σT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0
100
200
300
(M) 400
500
600
700
800
M1 17 -1
4- 7-79
T
S
σT

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 FRAM 1  STATION  18(1) CTD   8/APR/1979  707 GMT   CODE = 1
LAT = 84.6221N LNG =   9.1320W LTER =       1. LGER =       1.
AIR TEMP = -24.8 BAROM = 1034.0 WIND = 198.0 SPEED =    1.4

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.73   -1.73   31.70   25.52   246.8   0.000   1436.5
   3.0  -1.73   -1.73   31.70   25.52   246.7   0.007   1436.5
   5.0  -1.73   -1.73   31.70   25.52   247.0   0.012   1436.6
  10.0  -1.73   -1.73   31.69   25.52   247.3   0.025   1436.6
  15.0  -1.73   -1.73   31.69   25.52   247.4   0.037   1436.7
  20.0  -1.73   -1.73   31.69   25.52   247.3   0.050   1436.8
  25.0  -1.73   -1.73   31.69   25.51   247.5   0.062   1436.9
  30.0  -1.73   -1.73   31.69   25.52   247.2   0.075   1437.0
  35.0  -1.73   -1.73   31.70   25.52   246.9   0.087   1437.1
  40.0  -1.73   -1.73   31.71   25.53   245.7   0.100   1437.2
  45.0  -1.76   -1.76   32.20   25.93   208.3   0.111   1437.8
  50.0  -1.74   -1.74   32.41   26.10   191.5   0.121   1438.3
  55.0  -1.78   -1.78   32.54   26.20   181.9   0.130   1438.4
  60.0  -1.77   -1.77   32.60   26.25   177.0   0.139   1438.6
  65.0  -1.78   -1.78   32.69   26.33   169.9   0.148   1438.8
  70.0  -1.78   -1.78   32.74   26.37   166.[illegible]   0.157   1438.9
  80.0  -1.75   -1.75   32.86   26.46   156.9   0.173   1439.4
  90.0  -1.63   -1.63   33.11   26.66   137.9   0.188   1440.5
 100.0  -1.54   -1.54   33.50   26.98   108.0   0.200   1441.6
 110.0  -1.53   -1.54   33.77   27.20    87.3   0.210   1442.2
 120.0  -1.47   -1.47   33.96   27.35    72.9   0.218   1442.9
 130.0  -1.43   -1.44   34.11   27.47    61.4   0.225   1443.5
 140.0  -1.37   -1.37   34.21   27.55    53.9   0.231   1444.1
 150.0  -1.26   -1.26   34.29   27.61    48.5   0.236   1444.8
 160.0  -1.13   -1.13   34.36   27.66    43.4   0.241   1445.7
 170.0  -1.00   -1.00   34.42   27.70    39.7   0.245   1446.6
 180.0  -0.77   -0.77   34.47   27.74    36.2   0.249   1447.9
 190.0  -0.60   -0.61   34.52   27.77    33.4   0.252   1448.9
 200.0  -0.48   -0.49   34.57   27.80    30.3   0.255   1449.7
 210.0  -0.38   -0.39   34.60   27.82    28.3   0.258   1450.4
 220.0  -0.11   -0.12   34.65   27.85    26.0   0.261   1451.8
 230.0  -0.08   -0.09   34.68   27.87    23.9   0.264   1452.2
 240.0   0.05    0.04   34.72   27.89    21.9   0.266   1453.0
 250.0   0.23    0.22   34.76   27.92    19.3   0.268   1454.1
 260.0   0.33    0.31   34.79   27.94    17.6   0.270   1454.7
 270.0   0.34    0.33   34.80   27.94    17.5   0.272   1454.9
 280.0   0.40    0.38   34.81   27.95    16.7   0.273   1455.4
 290.0   0.47    0.46   34.84   27.97    15.1   0.275   1455.9
 300.0   0.49    0.47   34.85   27.98    14.5   0.276   1456.2
 310.0   0.49    0.47   34.84   27.97    14.7   0.278   1456.3
 320.0   0.51    0.50   34.85   27.98    14.2   0.279   1456.6
 330.0   0.54    0.53   34.86   27.98    14.1   0.281   1456.9
 340.0   0.57    0.55   34.87   27.99    13.5   0.282   1457.2
 350.0   0.58    0.56   34.87   27.99    13.2   0.283   1457.4
 370.0   0.57    0.55   34.88   28.00    12.9   0.286   1457.7
 390.0   0.58    0.56   34.89   28.00    12.3   0.289   1458.1
 410.0   0.54    0.52   34.88   28.00    12.3   0.291   1458.3
 430.0   0.52    0.50   34.89   28.01    11.9   0.294   1458.5
 450.0   0.50    0.48   34.89   28.01    11.3   0.296   1458.8
 470.0   0.47    0.45   34.89   28.01    11.1   0.298   1459.0
 490.0   0.43    0.41   34.90   28.02    10.7   0.300   1459.1
 510.0   0.39    0.36   34.90   28.02    10.2   0.303   1459.3
 530.0   0.34    0.32   34.90   28.02    10.2   0.305   1459.4
 550.0   0.29    0.27   34.90   28.03     9.4   0.307   1459.5
 570.0   0.26    0.23   34.90   28.03     9.4   0.308   1459.7
 590.0   0.23    0.21   34.90   28.03     9.2   0.310   1459.9
 610.0   0.19    0.17   34.90   28.04     8.6   0.312   1460.1
 630.0   0.16    0.13   34.90   28.04     8.4   0.314   1460.2
 650.0   0.13    0.10   34.90   28.04     8.1   0.316   1460.4
 670.0   0.10    0.07   34.91   28.04     7.8   0.317   1460.6
 690.0   0.07    0.04   34.91   28.05     7.5   0.319   1460.8

                         DEPTH      TEMP.      SALIN

     BOT NUM = 1           4.1     -1.75      31.69
     BOT NUM = 2          36.5     -1.78      31.69
     BOT NUM = 3         386.9      0.58
     BOT NUM = 4         700.1      0.06      34.90
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 FRAM 1  STATION  19(1) CTD   8/APR/1979 1933 GMT   CODE = 1
LAT = 84.6023N LNG =   9.1785W LTER =       0. LGER =       0.
AIR TEMP =          BAROM = 1040.7 WIND = 320.0 SPEED =    4.0

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.73   -1.73   31.71   25.53   246.4   0.000   1436.5
   3.1  -1.73   -1.73   31.71   25.53   246.4   0.008   1436.5
   5.0  -1.73   -1.73   31.71   25.53   246.1   0.012   1436.6
  10.0  -1.73   -1.73   31.70   25.52   246.6   0.025   1436.7
  15.0  -1.73   -1.73   31.70   25.53   246.6   0.037   1436.8
  20.0  -1.73   -1.73   31.70   25.52   246.7   0.050   1436.8
  25.0  -1.73   -1.73   31.70   25.52   245.9   0.062   1436.9
  30.0  -1.73   -1.73   31.70   25.52   246.8   0.074   1437.0
  35.0  -1.73   -1.73   31.70   25.52   246.8   0.087   1437.1
  40.0  -1.74   -1.74   31.76   25.57   242.0   0.099   1437.2
  45.0  -1.77   -1.77   32.30   26.01   200.0   0.110   1437.9
  50.0  -1.78   -1.78   32.47   26.14   187.5   0.120   1438.2
  55.0  -1.77   -1.77   32.56   26.22   179.9   0.129   1438.4
  60.0  -1.78   -1.78   32.66   26.30   172.2   0.138   1438.6
  65.0  -1.79   -1.79   32.70   26.34   169.1   0.147   1438.7
  70.0  -1.78   -1.78   32.73   26.36   166.7   0.155   1438.9
  80.0  -1.76   -1.76   32.84   26.44   158.7   0.172   1439.3
  90.0  -1.69   -1.70   33.09   26.65   139.5   0.187   1440.1
 100.0  -1.62   -1.62   33.48   26.97   109.3   0.199   1441.2
 110.0  -1.56   -1.56   33.78   27.20    85.8   0.209   1442.1
 120.0  -1.47   -1.47   33.97   27.36    72.0   0.217   1442.9
 130.0  -1.44   -1.44   34.12   27.47    61.1   0.224   1443.4
 140.0  -1.36   -1.37   34.21   27.54    54.6   0.230   1444.1
 150.0  -1.27   -1.28   34.29   27.60    48.7   0.235   1444.8
 160.0  -1.13   -1.13   34.37   27.66    43.1   0.240   1445.7
 170.0  -0.96   -0.96   34.42   27.71    39.3   0.244   1446.8
 180.0  -0.84   -0.84   34.47   27.74    36.0   0.248   1447.6
 190.0  -0.58   -0.59   34.52   27.77    33.5   0.251   1449.0
 200.0  -0.43   -0.44   34.57   27.80    30.2   0.254   1449.9
 210.0  -0.36   -0.37   34.60   27.83    28.1   0.257   1450.4
 220.0  -0.10   -0.11   34.65   27.85    25.9   0.260   1451.9
 230.0  -0.07   -0.08   34.68   27.88    23.5   0.262   1452.2
 240.0   0.10    0.09   34.72   27.89    21.9   0.265   1453.2
 250.0   0.25    0.24   34.77   27.93    19.1   0.267   1454.1
 260.0   0.32    0.31   34.79   27.94    17.5   0.269   1454.7
 270.0   0.33    0.32   34.79   27.94    17.6   0.270   1454.9
 280.0   0.39    0.37   34.81   27.95    16.6   0.272   1455.3
 290.0   0.48    0.47   34.84   27.97    15.2   0.274   1455.9
 300.0   0.48    0.47   34.85   27.98    14.5   0.275   1456.1
 310.0   0.48    0.46   34.85   27.98    14.7   0.277   1456.3
 320.0   0.52    0.51   34.85   27.98    14.2   0.278   1456.7
 330.0   0.54    0.52   34.86   27.98    14.3   0.280   1456.9
 340.0   0.57    0.55   34.87   27.99    13.5   0.281   1457.2
 350.0   0.58    0.57   34.87   27.99    13.3   0.282   1457.5
 370.0   0.57    0.55   34.87   27.99    13.4   0.285   1457.7
 390.0   0.59    0.57   34.89   28.00    12.3   0.288   1458.2
 410.0   0.56    0.54   34.88   28.00    12.5   0.290   1458.4
 430.0   0.53    0.51   34.88   28.00    12.2   0.293   1458.6
 450.0   0.51    0.49   34.89   28.01    11.5   0.295   1458.8
 470.0   0.47    0.45   34.89   28.01    11.2   0.297   1459.0
 490.0   0.43    0.41   34.89   28.01    11.1   0.300   1459.1
 510.0   0.38    0.36   34.90   28.02    10.1   0.302   1459.2
 530.0   0.34    0.31   34.89   28.02    10.2   0.304   1459.4
 550.0   0.30    0.28   34.90   28.03     9.7   0.306   1459.5
 570.0   0.26    0.23   34.90   28.03     9.2   0.308   1459.7
 590.0   0.22    0.19   34.90   28.03     9.1   0.310   1459.8
 610.0   0.18    0.15   34.90   28.03     8.9   0.311   1460.0
 630.0   0.13    0.11   34.90   28.04     8.4   0.313   1460.1
 650.0   0.11    0.08   34.90   28.04     8.2   0.315   1460.3
 670.0   0.08    0.05   34.90   28.04     7.9   0.316   1460.5
 690.0   0.06    0.03   34.90   28.05     7.7   0.318   1460.8
 700.6   0.05    0.02   34.91   28.05     7.4   0.319   1460.9

                         DEPTH      TEMP.      SALIN

     BOT NUM = 1           3.9                31.70
     BOT NUM = 2          39.5     -1.73
     BOT NUM = 3         386.1      0.58      34.87
     BOT NUM = 4         698.8      0.05      34.90
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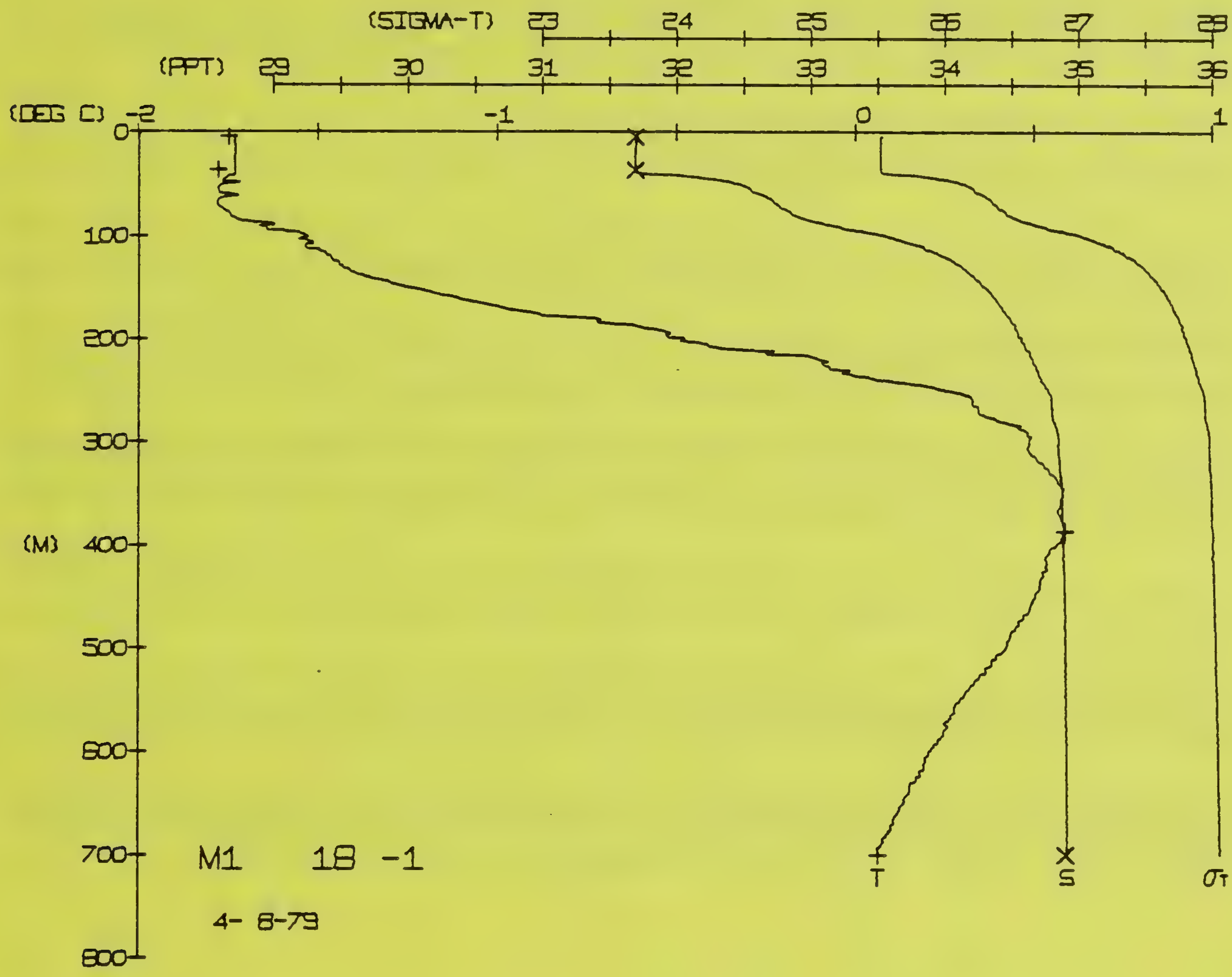
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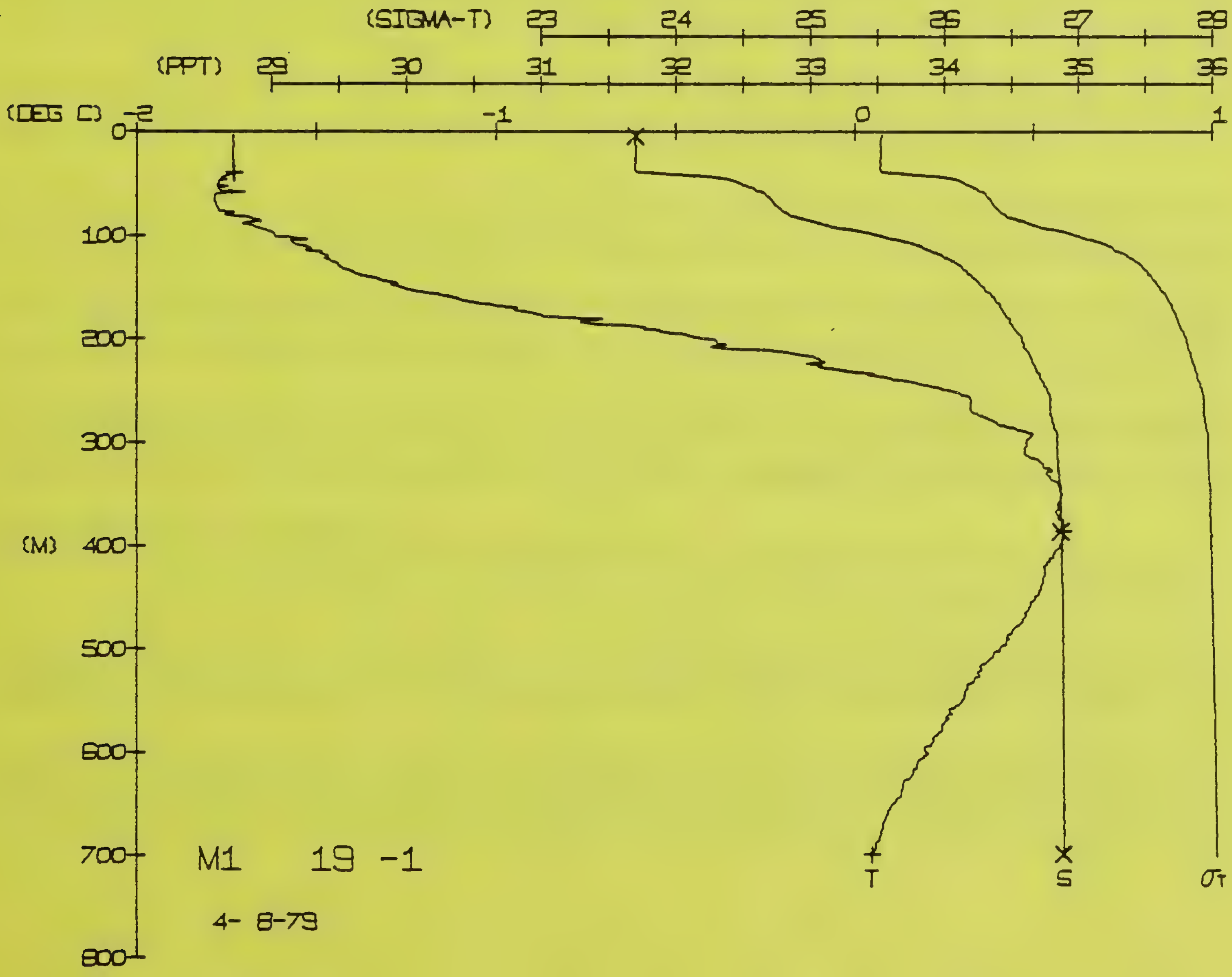
4- 8-79
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
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(M) 0 100 200 300 400 500 600 700 800
M1 19 -1
4- 8-79
T
S
σT

```
 FRAM 1  STATION  20(1) CTD    9/APR/1979  725 GMT  CODE = 1
LAT = 84.6006N LNG =   9.1814W LTER =      1. LGER =      1.
AIR TEMP =          BAROM = 1043.6 WIND = 320.0 SPEED =   4.0

 DFPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.70   25.52   246.9   0.000   1436.5
   3.0   -1.73   -1.73   31.70   25.52   246.9   0.007   1436.5
   5.0   -1.73   -1.73   31.69   25.52   247.6   0.012   1436.6
  10.0   -1.73   -1.73   31.69   25.51   247.9   0.025   1436.6
  15.0   -1.73   -1.73   31.68   25.51   247.9   0.037   1436.7
  20.0   -1.73   -1.73   31.68   25.51   247.9   0.050   1436.8
  25.0   -1.73   -1.73   31.68   25.51   247.8   0.062   1436.9
  30.0   -1.73   -1.73   31.69   25.52   247.4   0.075   1437.0
  35.0   -1.73   -1.73   31.69   25.51   247.4   0.087   1437.1
  40.0   -1.74   -1.74   31.84   25.64   235.7   0.099   1437.3
  45.0   -1.76   -1.77   32.36   26.06   195.7   0.110   1438.0
  50.0   -1.72   -1.72   32.55   26.21   181.0   0.120   1438.6
  55.0   -1.78   -1.78   32.63   26.28   174.9   0.129   1438.5
  60.0   -1.78   -1.79   32.69   26.32   170.2   0.137   1438.6
  65.0   -1.79   -1.79   32.71   26.35   168.2   0.146   1438.7
  70.0   -1.79   -1.79   32.74   26.37   166.2   0.154   1438.8
  80.0   -1.76   -1.76   32.84   26.44   158.8   0.171   1439.3
  90.0   -1.63   -1.64   33.09   26.64   139.7   0.186   1440.4
 100.0   -1.62   -1.62   33.46   26.94   111.4   0.198   1441.2
 110.0   -1.56   -1.56   33.75   27.18    88.9   0.209   1442.0
 120.0   -1.51   -1.52   33.96   27.35    73.2   0.217   1442.7
 130.0   -1.43   -1.43   34.13   27.48    60.3   0.223   1443.5
 140.0   -1.35   -1.36   34.22   27.55    53.7   0.229   1444.2
 150.0   -1.23   -1.24   34.29   27.61    48.2   0.234   1445.0
 160.0   -1.14   -1.14   34.36   27.65    43.3   0.239   1445.7
 170.0   -1.01   -1.02   34.41   27.70    40.0   0.243   1446.5
 180.0   -0.80   -0.81   34.48   27.74    35.9   0.247   1447.8
 190.0   -0.66   -0.66   34.52   27.77    32.9   0.251   1448.6
 200.0   -0.51   -0.52   34.57   27.80    30.3   0.254   1449.5
 210.0   -0.38   -0.39   34.61   27.83    27.9   0.257   1450.4
 220.0   -0.18   -0.18   34.65   27.85    25.6   0.259   1451.5
 230.0   -0.08   -0.09   34.69   27.88    23.4   0.262   1452.2
 240.0    0.04    0.03   34.72   27.90    21.5   0.264   1453.0
 250.0    0.24    0.23   34.77   27.92    19.1   0.266   1454.1
 260.0    0.33    0.32   34.79   27.94    17.9   0.268   1454.7
 270.0    0.33    0.32   34.79   27.94    17.6   0.270   1454.9
 280.0    0.40    0.39   34.81   27.95    16.5   0.271   1455.4
 290.0    0.48    0.47   34.84   27.97    15.1   0.273   1455.9
 300.0    0.48    0.47   34.85   27.98    14.7   0.275   1456.1
 310.0    0.49    0.47   34.85   27.98    14.7   0.276   1456.3
 320.0    0.52    0.51   34.85   27.98    14.2   0.278   1456.7
 330.0    0.54    0.53   34.86   27.98    14.2   0.279   1456.9
 340.0    0.57    0.55   34.87   27.99    13.5   0.280   1457.2
 350.0    0.58    0.56   34.88   27.99    13.0   0.282   1457.4
 370.0    0.57    0.55   34.87   27.99    13.1   0.284   1457.7
 390.0    0.58    0.57   34.89   28.00    12.3   0.287   1458.1
 410.0    0.55    0.53   34.88   28.00    12.3   0.289   1458.3
 430.0    0.52    0.50   34.89   28.01    11.7   0.292   1458.5
 450.0    0.50    0.48   34.89   28.01    11.5   0.294   1458.8
 470.0    0.47    0.44   34.89   28.01    11.1   0.296   1459.0
 490.0    0.42    0.40   34.90   28.02    10.7   0.299   1459.1
 510.0    0.37    0.35   34.90   28.02    10.2   0.301   1459.2
 530.0    0.33    0.31   34.90   28.03    10.0   0.303   1459.3
 550.0    0.29    0.26   34.90   28.03     9.6   0.305   1459.5
 570.0    0.25    0.23   34.90   28.03     9.2   0.307   1459.7
 590.0    0.21    0.18   34.90   28.03     9.0   0.309   1459.8
 610.0    0.18    0.15   34.90   28.04     8.4   0.310   1460.0
 630.0    0.15    0.12   34.91   28.04     8.1   0.312   1460.2
 650.0    0.12    0.09   34.90   28.04     8.0   0.314   1460.4
 670.0    0.09    0.06   34.90   28.05     7.8   0.315   1460.6
 690.0    0.07    0.04   34.91   28.05     7.6   0.317   1460.8

                         DEPTH       TEMP.       SALIN

       BOT NUM = 1         3.5
       BOT NUM = 2        43.1       -1.76       32.25
       BOT NUM = 3       386.4        0.58       34.87
       BOT NUM = 4       702.1        0.05       34.90
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```
 FRAM 1  STATION  21(1) CTD    9/APR/1979 1923 GMT  CODE = 1
LAT = 84.5977N LNG =   9.1676W LTER =      0. LGER =      0.
AIR TEMP = -28.0 BAROM = 1044.6 WIND = 163.0 SPEED =   1.9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.70   25.52   247.2   0.000   1436.5
   3.0   -1.73   -1.73   31.70   25.52   247.2   0.007   1436.5
   5.0   -1.73   -1.73   31.69   25.51   248.3   0.012   1436.5
  10.0   -1.73   -1.73   31.69   25.51   247.8   0.025   1436.6
  15.0   -1.73   -1.73   31.69   25.52   247.1   0.037   1436.7
  20.0   -1.73   -1.73   31.69   25.52   247.2   0.050   1436.8
  25.0   -1.73   -1.73   31.69   25.52   247.1   0.062   1436.9
  30.0   -1.73   -1.73   31.69   25.52   247.2   0.075   1437.0
  35.0   -1.73   -1.73   31.70   25.53   246.3   0.087   1437.1
  40.0   -1.75   -1.75   32.10   25.84   216.0   0.099   1437.6
  45.0   -1.77   -1.77   32.37   26.07   194.7   0.109   1438.0
  50.0   -1.77   -1.77   32.55   26.21   181.2   0.119   1438.3
  55.0   -1.78   -1.78   32.64   26.29   173.7   0.128   1438.5
  60.0   -1.78   -1.78   32.69   26.33   170.2   0.136   1438.6
  65.0   -1.79   -1.79   32.72   26.35   168.0   0.145   1438.7
  70.0   -1.78   -1.78   32.75   26.37   165.5   0.153   1438.9
  80.0   -1.76   -1.76   32.84   26.45   158.3   0.169   1439.3
  90.0   -1.66   -1.66   33.11   26.66   138.1   0.184   1440.3
 100.0   -1.62   -1.62   33.50   26.98   108.0   0.197   1441.2
 110.0   -1.55   -1.55   33.78   27.20    87.0   0.207   1442.1
 120.0   -1.51   -1.51   33.96   27.34    73.3   0.215   1442.7
 130.0   -1.42   -1.43   34.12   27.48    60.7   0.221   1443.5
 140.0   -1.34   -1.35   34.23   27.56    52.9   0.227   1444.2
 150.0   -1.22   -1.23   34.30   27.62    47.6   0.232   1445.0
 160.0   -1.11   -1.11   34.37   27.66    43.1   0.237   1445.8
 170.0   -0.99   -0.99   34.42   27.70    39.3   0.241   1446.6
 180.0   -0.84   -0.84   34.47   27.74    36.0   0.245   1447.6
 190.0   -0.67   -0.68   34.53   27.78    32.6   0.248   1448.6
 200.0   -0.50   -0.51   34.57   27.81    29.9   0.251   1449.6
 210.0   -0.37   -0.38   34.61   27.83    27.5   0.254   1450.4
 220.0   -0.23   -0.24   34.65   27.86    25.3   0.257   1451.3
 230.0   -0.09   -0.10   34.69   27.88    23.2   0.259   1452.2
 240.0    0.07    0.06   34.73   27.90    21.0   0.262   1453.1
 250.0    0.19    0.18   34.76   27.92    19.3   0.264   1453.9
 260.0    0.31    0.30   34.79   27.94    17.8   0.266   1454.6
 270.0    0.33    0.32   34.80   27.94    17.3   0.267   1454.9
 280.0    0.39    0.38   34.81   27.95    16.7   0.269   1455.3
 290.0    0.49    0.48   34.84   27.97    15.4   0.271   1456.0
 300.0    0.49    0.47   34.85   27.98    14.5   0.272   1456.2
 310.0    0.50    0.49   34.85   27.98    14.4   0.274   1456.4
 320.0    0.59    0.57   34.86   27.98    14.0   0.275   1457.0
 330.0    0.58    0.57   34.86   27.98    14.0   0.277   1457.1
 340.0    0.58    0.56   34.87   27.99    13.5   0.278   1457.3
 350.0    0.58    0.56   34.83   28.00    12.9   0.279   1457.4
 370.0    0.57    0.56   34.87   27.99    13.1   0.282   1457.8
 390.0    0.58    0.57   34.69   28.00    12.1   0.284   1458.1
 410.0    0.54    0.52   34.89   28.01    12.0   0.287   1458.3
 430.0    0.52    0.50   34.89   28.01    11.5   0.289   1458.5
 450.0    0.50    0.48   34.89   28.01    11.3   0.292   1458.8
 470.0    0.45    0.43   34.90   28.02    10.8   0.294   1458.9
 490.0    0.40    0.38   34.90   28.02    10.5   0.296   1459.0
 510.0    0.36    0.34   34.90   28.02    10.1   0.298   1459.1
 530.0    0.30    0.28   34.90   28.03     9.6   0.300   1459.2
 550.0    0.29    0.26   34.90   28.03     9.6   0.302   1459.5
 570.0    0.25    0.22   34.90   28.03     9.2   0.304   1459.6
 590.0    0.20    0.17   34.90   28.04     8.7   0.306   1459.8
 610.0    0.17    0.14   34.90   28.04     8.6   0.307   1460.0
 630.0    0.14    0.11   34.91   28.04     8.0   0.309   1460.2
 650.0    0.12    0.09   34.90   28.04     8.1   0.311   1460.4
 670.0    0.08    0.05   34.91   28.05     7.6   0.312   1460.6
 690.0    0.06    0.03   34.91   28.05     7.3   0.314   1460.8

                         DEPTH       TEMP.       SALIN

       BOT NUM = 1         3.9                   31.67
       BOT NUM = 2        35.1       -1.74       31.69
       BOT NUM = 3       385.8        0.59       34.87
       BOT NUM = 4       697.1        0.05       34.90
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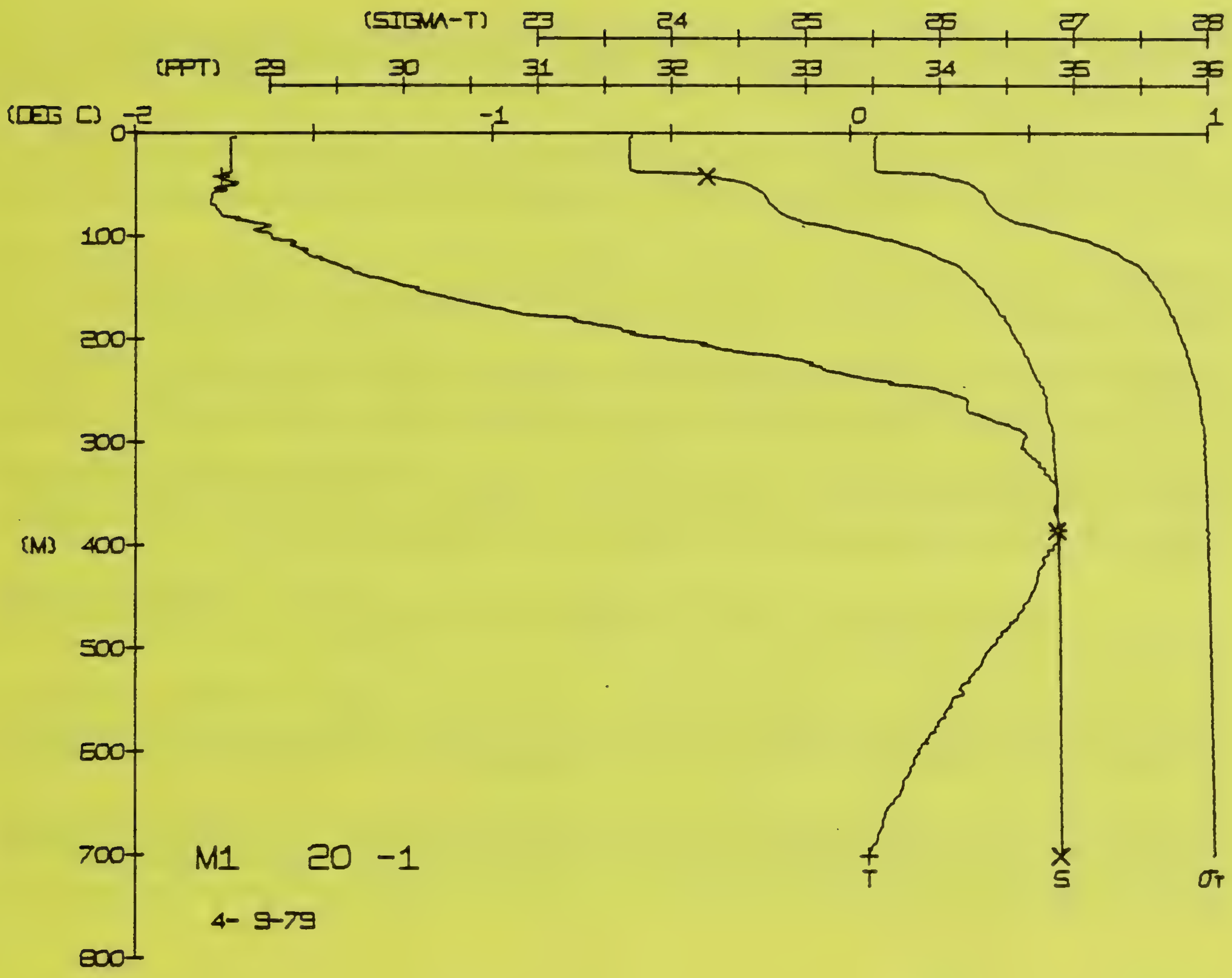
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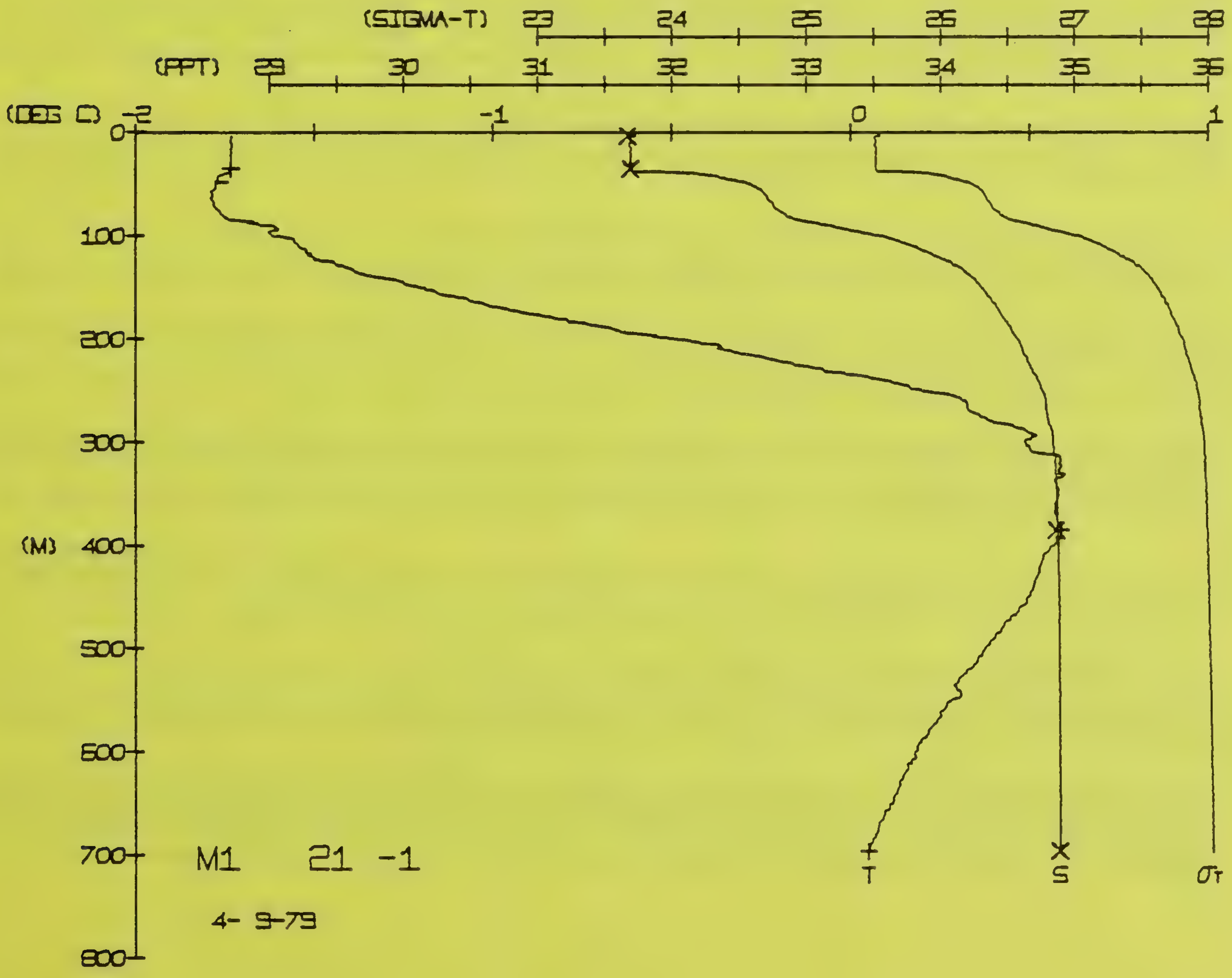
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(M)
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500
600
700
800
M1 21 -1
4- 9-79
T
S
σT

```
 FRAM 1  STATION  22(1) CTD  10/APR/1979  700 GMT  CODE = 1
LAT = 84.5965N LNG =    9.1251W LTER =      1.  LGER =      2.
AIR TEMP = -28.0 BAROM = 1041.2 WIND = 163.0 SPEED =    1.9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.65   25.49   250.4   0.000   1436.4
   3.1   -1.73   -1.73   31.65   25.49   250.3   0.008   1436.5
   5.0   -1.73   -1.73   31.65   25.48   250.8   0.013   1436.5
  10.0   -1.73   -1.73   31.64   25.48   251.0   0.025   1436.6
  15.0   -1.73   -1.73   31.64   25.48   251.2   0.038   1436.7
  20.0   -1.73   -1.73   31.64   25.48   251.1   0.051   1436.8
  25.0   -1.73   -1.73   31.65   25.48   250.7   0.063   1436.8
  30.0   -1.73   -1.73   31.66   25.49   250.0   0.076   1436.9
  35.0   -1.73   -1.73   31.84   25.63   236.1   0.088   1437.3
  40.0   -1.73   -1.74   32.25   25.97   204.0   0.099   1437.9
  45.0   -1.75   -1.75   32.42   26.11   191.1   0.109   1438.2
  50.0   -1.78   -1.79   32.55   26.21   181.1   0.118   1438.3
  55.0   -1.78   -1.78   32.60   26.25   177.0   0.127   1438.5
  60.0   -1.75   -1.75   32.67   26.31   171.5   0.136   1438.8
  65.0   -1.79   -1.79   32.72   26.35   167.9   0.145   1438.7
  70.0   -1.78   -1.78   32.75   26.38   165.2   0.153   1438.9
  80.0   -1.76   -1.76   32.83   26.44   159.0   0.170   1439.3
  90.0   -1.64   -1.64   33.11   26.66   138.2   0.184   1440.4
 100.0   -1.59   -1.59   33.51   26.99   107.0   0.197   1441.4
 110.0   -1.54   -1.54   33.82   27.23    84.0   0.206   1442.2
 120.0   -1.50   -1.50   33.97   27.36    72.1   0.214   1442.8
 130.0   -1.44   -1.44   34.14   27.49    59.7   0.221   1443.5
 140.0   -1.36   -1.36   34.22   27.55    53.6   0.227   1444.1
 150.0   -1.21   -1.21   34.31   27.62    47.3   0.232   1445.1
 160.0   -1.11   -1.11   34.38   27.67    42.3   0.236   1445.9
 170.0   -0.95   -0.95   34.44   27.72    38.3   0.240   1446.9
 180.0   -0.83   -0.84   34.48   27.74    35.7   0.244   1447.6
 190.0   -0.63   -0.64   34.53   27.78    32.4   0.248   1448.8
 200.0   -0.52   -0.53   34.57   27.81    29.7   0.251   1449.5
 210.0   -0.38   -0.38   34.61   27.83    27.3   0.254   1450.4
 220.0   -0.17   -0.18   34.66   27.86    25.1   0.256   1451.6
 230.0   -0.11   -0.12   34.68   27.88    23.4   0.259   1452.1
 240.0    0.05    0.04   34.72   27.90    21.5   0.261   1453.0
 250.0    0.24    0.23   34.76   27.92    19.3   0.263   1454.1
 260.0    0.32    0.31   34.79   27.94    17.6   0.265   1454.7
 270.0    0.33    0.32   34.80   27.94    17.4   0.267   1454.9
 280.0    0.41    0.40   34.82   27.96    16.1   0.268   1455.4
 290.0    0.50    0.49   34.85   27.97    14.7   0.270   1456.0
 300.0    0.48    0.47   34.85   27.98    14.4   0.271   1456.1
 310.0    0.48    0.47   34.85   27.98    14.5   0.273   1456.3
 320.0    0.52    0.51   34.85   27.98    14.4   0.274   1456.7
 330.0    0.55    0.54   34.86   27.98    13.9   0.276   1457.0
 340.0    0.57    0.56   34.87   27.99    13.7   0.277   1457.2
 350.0    0.58    0.57   34.87   27.99    13.1   0.278   1457.5
 370.0    0.57    0.55   34.88   27.99    13.0   0.281   1457.7
 390.0    0.58    0.56   34.89   28.00    12.1   0.284   1458.1
 410.0    0.54    0.52   34.88   28.00    12.3   0.286   1458.3
 430.0    0.52    0.51   34.89   28.01    11.9   0.289   1458.5
 450.0    0.50    0.47   34.89   28.01    11.3   0.291   1458.8
 470.0    0.46    0.43   34.89   28.02    10.9   0.293   1458.9
 490.0    0.40    0.38   34.89   28.02    10.6   0.295   1459.0
 510.0    0.36    0.34   34.90   28.02    10.2   0.297   1459.1
 530.0    0.32    0.30   34.90   28.03     9.8   0.299   1459.3
 550.0    0.29    0.27   34.90   28.03     9.4   0.301   1459.5
 570.0    0.22    0.19   34.90   28.03     9.0   0.303   1459.5
 590.0    0.19    0.17   34.90   28.04     8.8   0.305   1459.7
 610.0    0.17    0.14   34.90   28.04     8.3   0.307   1459.9
 630.0    0.13    0.10   34.90   28.04     8.1   0.308   1460.1
 650.0    0.11    0.08   34.91   28.05     7.8   0.310   1460.3
 670.0    0.07    0.04   34.91   28.05     7.5   0.312   1460.5
 690.0    0.05    0.02   34.91   28.05     7.2   0.313   1460.8

                        DEPTH      TEMP.      SALIN

     BOT NUM = 1          3.7      -1.74      31.64
     BOT NUM = 2         34.7      -1.74
     BOT NUM = 3        384.5       0.59      34.87
     BOT NUM = 4        698.9       0.04      34.90
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 FRAM 1  STATION  23(1) CTD  10/APR/1979 1821 GMT  CODE = 1
LAT = 84.5856N LNG =    8.9472W LTER =     40.  LGER =     82.
AIR TEMP =        BAROM = 1040.8 WIND =        SPEED =

DEPTH     TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.70   -1.70   31.66   25.49   249.7   0.000   1436.6
   3.0   -1.70   -1.70   31.66   25.49   249.6   0.008   1436.6
   5.0   -1.73   -1.73   31.66   25.49   250.2   0.013   1436.5
  10.0   -1.73   -1.73   31.65   25.48   250.6   0.025   1436.6
  15.0   -1.73   -1.73   31.65   25.48   250.7   0.038   1436.7
  20.0   -1.73   -1.73   31.64   25.48   250.9   0.050   1436.8
  25.0   -1.73   -1.73   31.65   25.48   250.7   0.063   1436.8
  30.0   -1.73   -1.73   31.66   25.49   250.0   0.076   1436.9
  35.0   -1.73   -1.73   32.01   25.78   222.6   0.088   1437.5
  40.0   -1.73   -1.73   32.23   25.95   205.8   0.098   1437.9
  45.0   -1.73   -1.73   32.35   26.05   196.6   0.108   1438.2
  50.0   -1.74   -1.74   32.48   26.15   186.6   0.118   1438.4
  55.0   -1.76   -1.76   32.54   26.21   181.4   0.127   1438.5
  60.0   -1.77   -1.77   32.61   26.26   176.0   0.136   1438.6
  65.0   -1.77   -1.77   32.67   26.31   171.9   0.145   1438.8
  70.0   -1.76   -1.76   32.72   26.35   167.7   0.154   1439.0
  80.0   -1.68   -1.68   32.86   26.46   157.3   0.170   1439.7
  90.0   -1.70   -1.70   33.11   26.67   137.6   0.185   1440.1
 100.0   -1.61   -1.61   33.47   26.95   110.4   0.197   1441.2
 110.0   -1.53   -1.53   33.74   27.17    89.9   0.208   1442.1
 120.0   -1.48   -1.48   33.96   27.35    72.9   0.216   1442.9
 130.0   -1.43   -1.43   34.12   27.48    60.8   0.223   1443.5
 140.0   -1.35   -1.36   34.22   27.55    53.8   0.228   1444.1
 150.0   -1.23   -1.23   34.30   27.61    47.9   0.233   1445.0
 160.0   -1.13   -1.13   34.36   27.66    43.4   0.238   1445.7
 170.0   -1.00   -1.01   34.42   27.70    39.6   0.242   1446.6
 180.0   -0.84   -0.84   34.47   27.74    35.9   0.246   1447.6
 190.0   -0.67   -0.68   34.53   27.78    32.6   0.250   1448.6
 200.0   -0.55   -0.56   34.56   27.80    30.3   0.253   1449.4
 210.0   -0.38   -0.39   34.61   27.83    27.7   0.256   1450.4
 220.0   -0.24   -0.25   34.64   27.85    25.9   0.258   1451.2
 230.0   -0.13   -0.14   34.67   27.87    24.2   0.261   1451.9
 240.0   -0.01   -0.02   34.71   27.89    21.9   0.263   1452.7
 250.0    0.20    0.19   34.75   27.92    19.9   0.265   1453.9
 260.0    0.30    0.29   34.79   27.94    18.0   0.267   1454.5
 270.0    0.33    0.32   34.79   27.94    17.5   0.269   1454.9
 280.0    0.39    0.38   34.81   27.95    16.6   0.271   1455.4
 290.0    0.48    0.47   34.84   27.97    14.9   0.272   1456.0
 300.0    0.49    0.47   34.85   27.98    14.7   0.274   1456.2
 310.0    0.48    0.46   34.85   27.98    14.6   0.275   1456.3
 320.0    0.49    0.48   34.85   27.97    14.7   0.277   1456.5
 330.0    0.55    0.54   34.86   27.98    14.0   0.278   1457.0
 340.0    0.56    0.54   34.87   27.99    13.6   0.280   1457.2
 350.0    0.58    0.57   34.87   27.99    13.3   0.281   1457.5
 370.0    0.57    0.55   34.87   27.99    13.2   0.284   1457.7
 390.0    0.59    0.57   34.88   28.00    12.8   0.286   1458.2
 410.0    0.56    0.54   34.89   28.00    12.3   0.289   1458.3
 430.0    0.56    0.54   34.89   28.00    12.1   0.291   1458.7
 450.0    0.51    0.49   34.89   28.01    11.6   0.294   1458.8
 470.0    0.49    0.47   34.90   28.01    11.1   0.296   1459.1
 490.0    0.45    0.42   34.89   28.01    11.5   0.298   1459.2
 510.0    0.37    0.34   34.89   28.02    10.4   0.300   1459.2
 530.0    0.35    0.33   34.90   28.03     9.6   0.302   1459.5
 550.0    0.30    0.27   34.91   28.03     9.1   0.304   1459.5
 570.0    0.26    0.23   34.90   28.03     9.1   0.306   1459.7
 590.0    0.30    0.27   34.91   28.04     8.9   0.308   1460.2
 610.0    0.23    0.21   34.90   28.04     8.8   0.310   1460.2
 630.0    0.17    0.15   34.91   28.04     8.2   0.312   1460.3
 650.0    0.11    0.09   34.70   28.04     8.0   0.313   1460.4
 670.0    0.08    0.05   34.90   28.04     7.8   0.315   1460.5
 690.0    0.06    0.03   34.90   28.05     7.6   0.316   1460.8

                        DEPTH      TEMP.      SALIN

     BOT NUM = 1          4.8                 31.65
     BOT NUM = 2         31.4      -1.74      31.65
     BOT NUM = 3        392.9       0.60      34.87
     BOT NUM = 4        699.9       0.05      34.90
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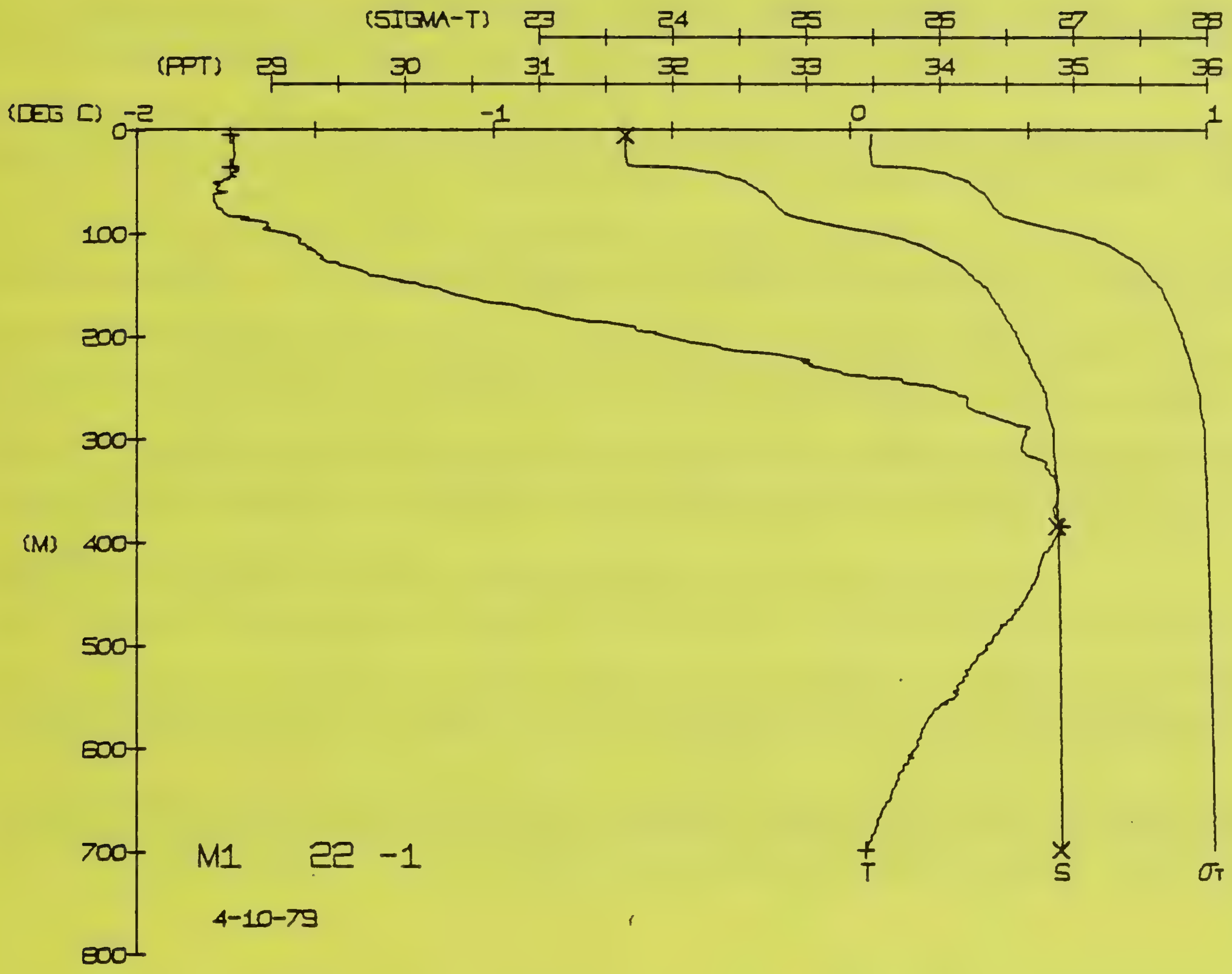
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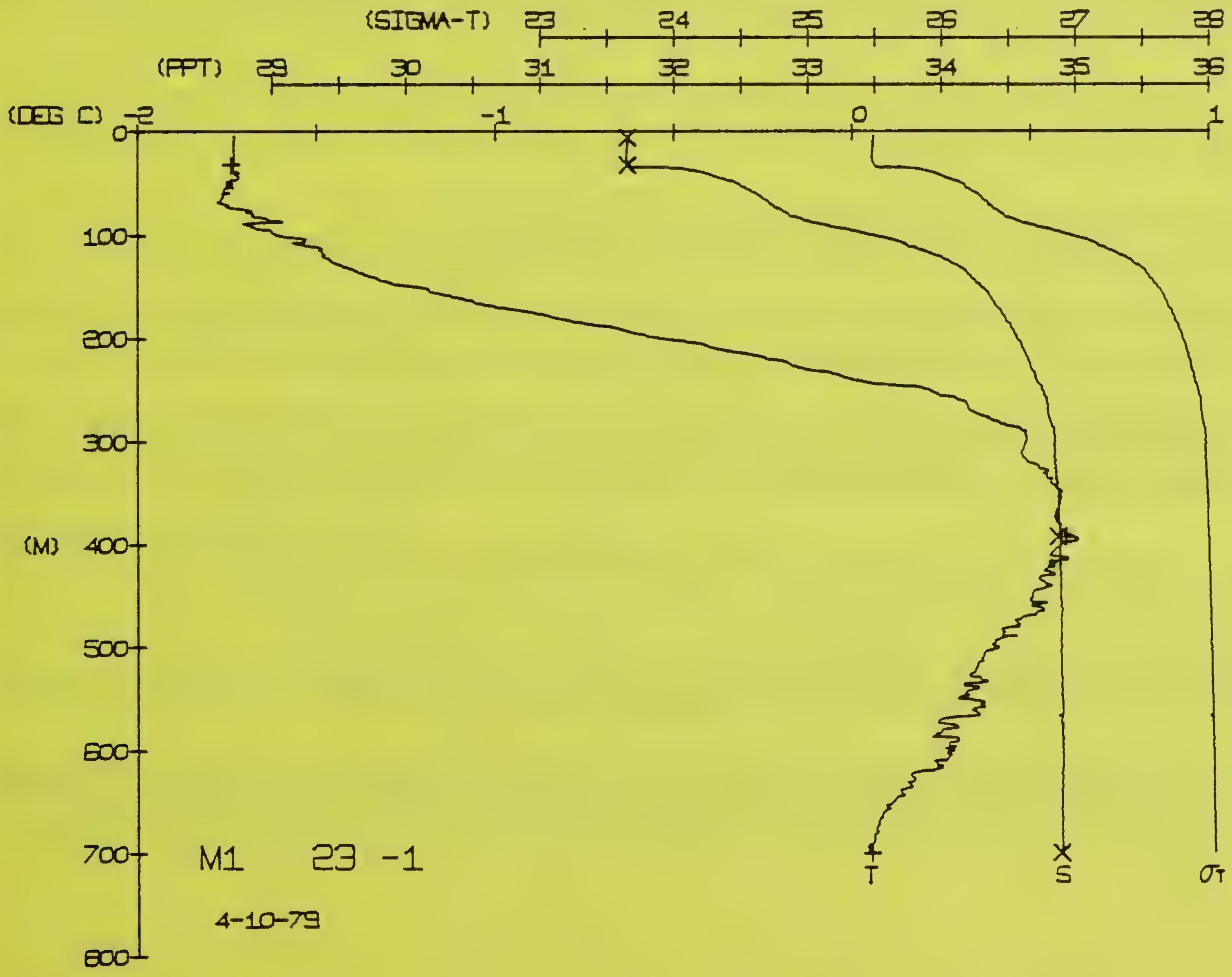
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 22 -1
4-10-79
T
S
σT


(SIGMA-T) 23 24 25 26 27 28
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 23 -1
4-10-79
T
S
σT

```
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LAT = 84.5680N LNG =   8.8393W LTER =     12.  LGER =     18.
AIR TEMP =        BAROM = 1036.6 WIND =          SPEED =

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

    0.0  -1.73  -1.73   31.65   25.48   250.8   0.000   1436.4
    3.0  -1.73  -1.73   31.65   25.48   250.8   0.008   1436.5
    5.0  -1.73  -1.73   31.64   25.48   251.1   0.013   1436.5
   10.0  -1.73  -1.73   31.64   25.47   251.4   0.025   1436.6
   15.0  -1.73  -1.73   31.64   25.48   251.3   0.038   1436.7
   20.0  -1.73  -1.73   31.64   25.47   251.5   0.051   1436.7
   25.0  -1.73  -1.73   31.64   25.47   251.4   0.063   1436.8
   30.0  -1.73  -1.73   31.64   25.48   251.0   0.076   1436.9
   35.0  -1.74  -1.75   32.05   25.80   219.9   0.088   1437.5
   40.0  -1.74  -1.74   32.25   25.97   204.0   0.098   1437.9
   45.0  -1.74  -1.74   32.37   26.07   194.6   0.108   1438.2
   50.0  -1.74  -1.74   32.47   26.15   187.1   0.118   1438.4
   55.0  -1.77  -1.77   32.54   26.20   181.9   0.127   1438.4
   60.0  -1.75  -1.75   32.60   26.25   177.4   0.136   1438.7
   65.0  -1.71  -1.71   32.66   26.30   172.5   0.145   1439.0
   70.0  -1.71  -1.71   32.73   26.36   167.3   0.154   1439.2
   80.0  -1.63  -1.63   32.90   26.49   154.0   0.170   1440.0
   90.0  -1.57  -1.57   33.21   26.74   130.3   0.184   1440.9
  100.0  -1.59  -1.60   33.55   27.02   104.1   0.196   1441.4
  110.0  -1.55  -1.55   33.79   27.21    86.3   0.206   1442.1
  120.0  -1.50  -1.51   33.98   27.37    71.3   0.214   1442.8
  130.0  -1.43  -1.43   34.13   27.48    60.4   0.220   1443.5
  140.0  -1.31  -1.32   34.24   27.57    52.1   0.226   1444.4
  150.0  -1.20  -1.20   34.31   27.62    47.3   0.231   1445.2
  160.0  -1.08  -1.08   34.38   27.67    42.2   0.236   1446.0
  170.0  -0.97  -0.98   34.43   27.71    39.0   0.240   1446.7
  180.0  -0.86  -0.86   34.47   27.74    36.3   0.243   1447.5
  190.0  -0.58  -0.58   34.52   27.77    33.5   0.247   1449.0
  200.0  -0.47  -0.48   34.57   27.81    29.9   0.250   1449.8
  210.0  -0.36  -0.37   34.61   27.83    27.8   0.253   1450.5
  220.0  -0.28  -0.28   34.64   27.85    26.0   0.256   1451.1
  230.0  -0.12  -0.13   34.68   27.87    23.9   0.258   1452.0
  240.0   0.12   0.11   34.72   27.90    21.6   0.261   1453.3
  250.0   0.23   0.22   34.76   27.92    19.3   0.263   1454.0
  260.0   0.32   0.31   34.79   27.94    17.5   0.265   1454.7
  270.0   0.34   0.33   34.80   27.94    17.3   0.266   1454.9
  280.0   0.38   0.37   34.81   27.95    16.8   0.268   1455.3
  290.0   0.45   0.43   34.83   27.96    15.6   0.270   1455.8
  300.0   0.54   0.53   34.85   27.98    14.6   0.271   1456.4
  310.0   0.59   0.57   34.86   27.98    14.1   0.273   1456.8
  320.0   0.58   0.57   34.86   27.98    14.1   0.274   1456.9
  330.0   0.57   0.56   34.86   27.98    14.2   0.275   1457.1
  340.0   0.56   0.55   34.86   27.98    14.3   0.277   1457.2
  350.0   0.66   0.65   34.88   27.99    13.4   0.278   1457.8
  370.0   0.71   0.70   34.89   28.00    12.9   0.281   1458.4
  390.0   0.73   0.71   34.90   28.00    12.5   0.284   1458.8
  410.0   0.68   0.66   34.90   28.01    12.2   0.286   1458.9
  430.0   0.64   0.62   34.90   28.01    11.6   0.288   1459.1
  450.0   0.63   0.61   34.91   28.02    10.9   0.291   1459.4
  470.0   0.60   0.58   34.91   28.02    10.9   0.293   1459.6
  490.0   0.56   0.54   34.91   28.02    10.3   0.295   1459.7
  510.0   0.50   0.48   34.91   28.03     9.9   0.297   1459.8
  530.0   0.44   0.42   34.91   28.03     9.5   0.299   1459.9
  550.0   0.40   0.37   34.91   28.03     9.2   0.301   1460.0
  570.0   0.35   0.32   34.91   28.04     9.0   0.303   1460.1
  590.0   0.30   0.28   34.91   28.04     8.7   0.305   1460.2
  610.0   0.24   0.21   34.92   28.05     7.9   0.306   1460.3
  630.0   0.20   0.18   34.91   28.04     8.1   0.308   1460.4
  650.0   0.17   0.14   34.92   28.05     7.6   0.309   1460.7
  670.0   0.13   0.10   34.91   28.05     7.4   0.311   1460.8
  690.0   0.10   0.07   34.91   28.05     7.6   0.312   1461.0
  699.4   0.08   0.05   34.93   28.06     6.1   0.313   1461.1

                         DEPTH        TEMP.       SALIN

        BOT NUM = 1        3.5        -1.74       31.64
        BOT NUM = 2       29.6        -1.74       31.63
        BOT NUM = 3      384.7         0.73       34.89
        BOT NUM = 4      697.6         0.09       34.90
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LAT = 84.5499N LNG =   8.6897W LTER =      1.  LGER =      2.
AIR TEMP =        BAROM = 1027.4 WIND =          SPEED =

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

    0.0  -1.73  -1.73   31.67   25.50   249.5   0.000   1436.4
    3.0  -1.73  -1.73   31.67   25.50   249.5   0.008   1436.5
    5.0  -1.73  -1.73   31.66   25.49   250.2   0.013   1436.5
   10.0  -1.73  -1.73   31.65   25.48   250.7   0.025   1436.6
   15.0  -1.73  -1.73   31.64   25.47   251.4   0.038   1436.7
   20.0  -1.73  -1.73   31.64   25.48   251.1   0.050   1436.7
   25.0  -1.73  -1.73   31.64   25.47   251.3   0.063   1436.8
   30.0  -1.73  -1.73   31.64   25.47   251.3   0.076   1436.9
   35.0  -1.74  -1.74   31.74   25.55   243.8   0.088   1437.1
   40.0  -1.75  -1.75   32.01   25.78   222.6   0.100   1437.5
   45.0  -1.75  -1.75   32.34   26.04   197.5   0.111   1438.1
   50.0  -1.77  -1.77   32.49   26.17   185.2   0.120   1438.3
   55.0  -1.78  -1.79   32.57   26.23   179.7   0.129   1438.4
   60.0  -1.78  -1.78   32.65   26.30   172.8   0.138   1438.6
   65.0  -1.78  -1.79   32.72   26.35   168.0   0.147   1438.8
   70.0  -1.78  -1.78   32.75   26.38   165.2   0.155   1438.9
   80.0  -1.74  -1.74   32.89   26.49   154.5   0.171   1439.5
   90.0  -1.64  -1.64   33.17   26.71   133.4   0.186   1440.5
  100.0  -1.59  -1.59   33.53   27.00   106.0   0.198   1441.4
  110.0  -1.56  -1.56   33.79   27.21    85.7   0.208   1442.1
  120.0  -1.51  -1.51   33.99   27.37    70.8   0.216   1442.8
  130.0  -1.45  -1.45   34.13   27.49    59.8   0.222   1443.4
  140.0  -1.30  -1.31   34.25   27.57    51.7   0.228   1444.4
  150.0  -1.19  -1.19   34.33   27.63    46.0   0.233   1445.3
  160.0  -1.08  -1.08   34.38   27.68    42.0   0.237   1446.0
  170.0  -0.94  -0.95   34.43   27.71    38.6   0.241   1446.9
  180.0  -0.83  -0.83   34.47   27.74    36.1   0.245   1447.6
  190.0  -0.70  -0.70   34.52   27.77    33.0   0.248   1448.5
  200.0  -0.54  -0.54   34.56   27.80    30.4   0.252   1449.4
  210.0  -0.39  -0.39   34.61   27.83    27.9   0.255   1450.3
  220.0  -0.25  -0.26   34.64   27.85    26.0   0.257   1451.2
  230.0  -0.11  -0.12   34.68   27.87    23.9   0.260   1452.0
  240.0  -0.01  -0.02   34.71   27.89    21.8   0.262   1452.7
  250.0   0.13   0.12   34.75   27.92    19.8   0.264   1453.6
  260.0   0.26   0.25   34.78   27.94    17.9   0.266   1454.4
  270.0   0.31   0.30   34.79   27.94    17.6   0.268   1454.8
  280.0   0.33   0.31   34.80   27.95    17.1   0.270   1455.0
  290.0   0.42   0.41   34.83   27.96    15.7   0.271   1455.7
  300.0   0.50   0.48   34.84   27.97    14.9   0.273   1456.2
  310.0   0.54   0.53   34.86   27.98    14.3   0.274   1456.6
  320.0   0.57   0.55   34.85   27.98    14.5   0.276   1456.9
  330.0   0.58   0.56   34.86   27.98    14.3   0.277   1457.1
  340.0   0.59   0.57   34.86   27.98    14.1   0.279   1457.3
  350.0   0.63   0.62   34.88   27.99    13.3   0.280   1457.7
  370.0   0.67   0.65   34.89   28.00    12.9   0.283   1458.2
  390.0   0.68   0.66   34.90   28.01    11.6   0.285   1458.6
  410.0   0.63   0.62   34.89   28.00    12.2   0.288   1458.7
  430.0   0.60   0.59   34.90   28.01    11.5   0.290   1458.9
  450.0   0.59   0.57   34.91   28.02    11.0   0.292   1459.2
  470.0   0.55   0.53   34.91   28.02    10.7   0.294   1459.4
  490.0   0.49   0.47   34.91   28.02    10.2   0.297   1459.4
  510.0   0.43   0.40   34.91   28.03     9.8   0.299   1459.5
  530.0   0.39   0.37   34.91   28.03     9.5   0.301   1459.6
  550.0   0.34   0.32   34.91   28.04     9.0   0.302   1459.7
  570.0   0.31   0.29   34.91   28.04     8.8   0.304   1459.9
  590.0   0.28   0.26   34.91   28.04     8.5   0.306   1460.1
  610.0   0.21   0.18   34.91   28.04     8.2   0.308   1460.1
  630.0   0.18   0.15   34.91   28.05     7.9   0.309   1460.3
  650.0   0.17   0.14   34.91   28.05     7.6   0.311   1460.6
  670.0   0.12   0.09   34.91   28.05     7.6   0.312   1460.7
  690.0   0.09   0.06   34.91   28.05     7.4   0.314   1460.9
  700.9   0.07   0.04   34.93   28.06     6.0   0.315   1461.1

                         DEPTH        TEMP.       SALIN

        BOT NUM = 1        4.4        -1.74       31.64
        BOT NUM = 2       31.4        -1.74       31.64
        BOT NUM = 3      386.4         0.69       34.88
        BOT NUM = 4      699.8         0.08       34.90
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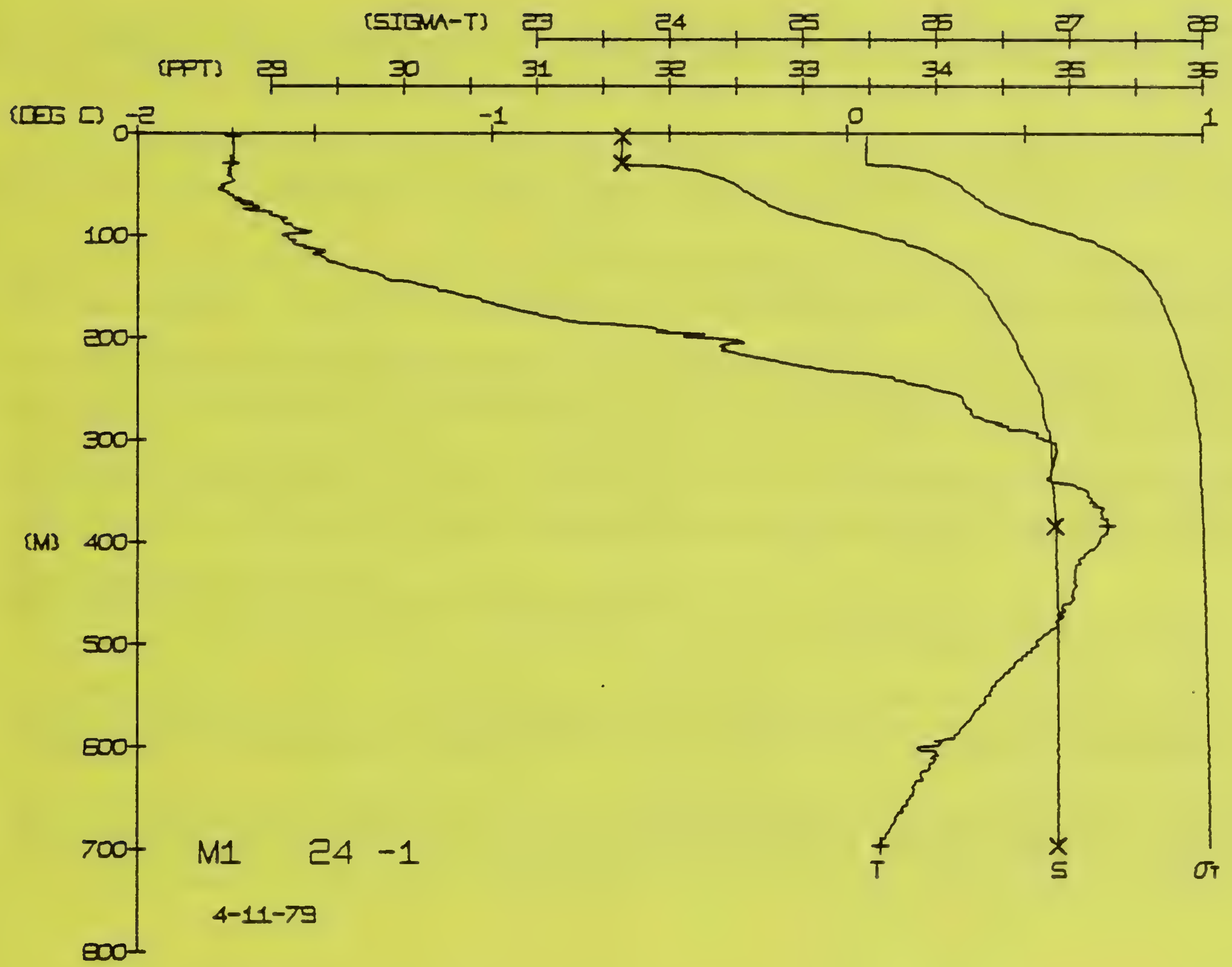
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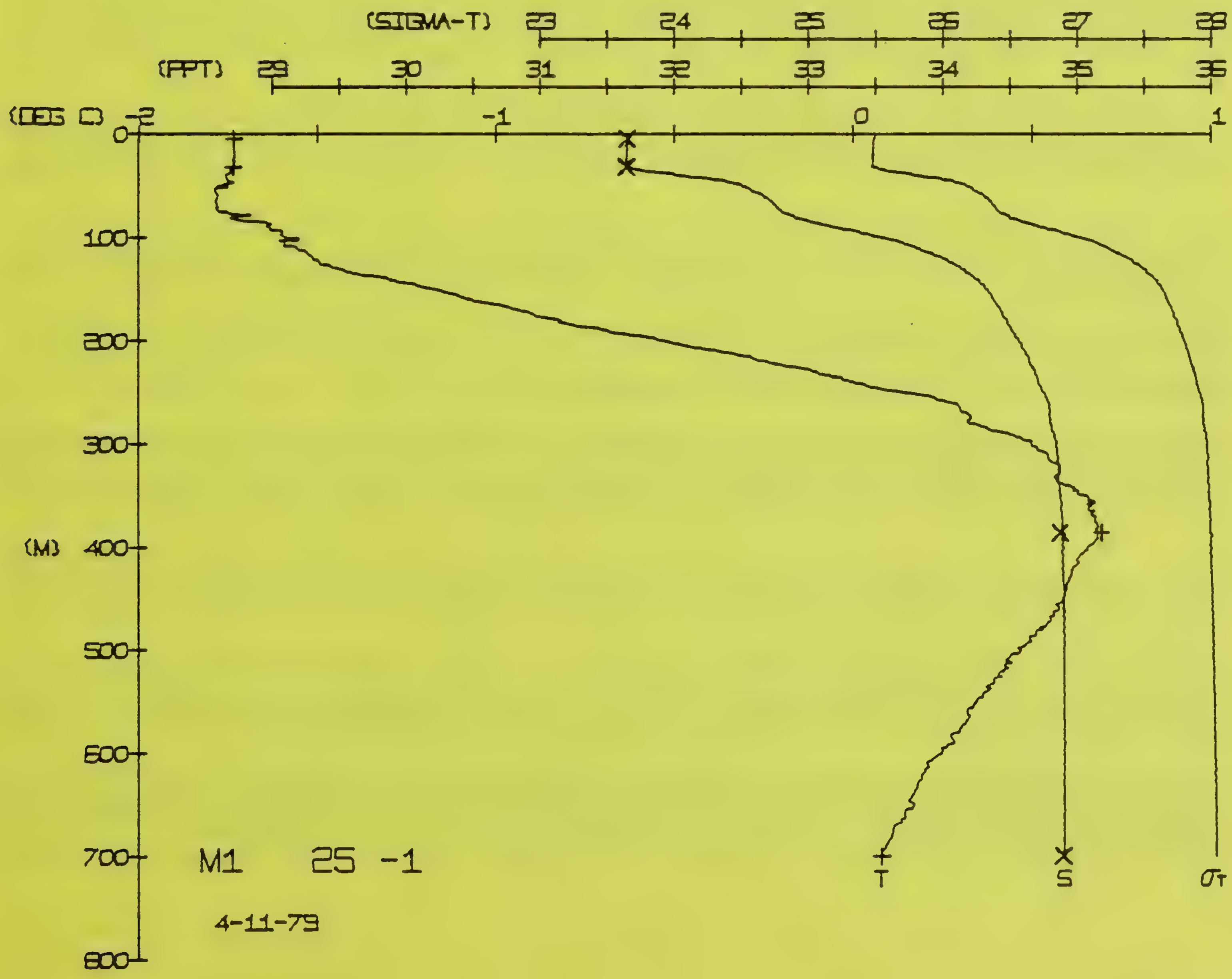
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
M1 24 -1
4-11-79
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
M1 25 -1
4-11-79
T
S
σT

```
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LAT = 84. 5119N LNG =   8. 8666W LTER =        1. LGER =      3.
AIR TEMP =         BAROM = 1032. 6 WIND =         SPEED =

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  31. 65  25. 49  250. 4  0. 000  1436. 4
   3. 0  -1. 74  -1. 74  31. 65  25. 49  250. 4  0. 008  1436. 5
   5. 0  -1. 74  -1. 74  31. 66  25. 49  250. 3  0. 013  1436. 5
  10. 0  -1. 74  -1. 74  31. 65  25. 48  250. 5  0. 025  1436. 6
  15. 0  -1. 74  -1. 74  31. 65  25. 48  250. 5  0. 038  1436. 7
  20. 0  -1. 74  -1. 74  31. 65  25. 48  250. 6  0. 050  1436. 7
  25. 0  -1. 74  -1. 74  31. 65  25. 48  250. 5  0. 063  1436. 8
  30. 0  -1. 74  -1. 74  31. 65  25. 48  250. 3  0. 076  1436. 9
  35. 0  -1. 74  -1. 74  31. 69  25. 51  247. 4  0. 088  1437. 0
  40. 0  -1. 76  -1. 76  32. 11  25. 85  215. 2  0. 100  1437. 6
  45. 0  -1. 73  -1. 73  32. 41  26. 10  192. 1  0. 110  1438. 3
  50. 0  -1. 77  -1. 77  32. 52  26. 19  182. 9  0. 120  1438. 3
  55. 0  -1. 74  -1. 74  32. 62  26. 27  175. 8  0. 129  1438. 6
  60. 0  -1. 71  -1. 71  32. 69  26. 32  170. 4  0. 137  1439. 0
  65. 0  -1. 70  -1. 70  32. 75  26. 37  165. 8  0. 146  1439. 2
  70. 0  -1. 69  -1. 69  32. 83  26. 43  159. 8  0. 154  1439. 5
  80. 0  -1. 69  -1. 70  33. 01  26. 58  145. 8  0. 169  1439. 8
  90. 0  -1. 63  -1. 63  33. 29  26. 81  123. 9  0. 183  1440. 7
 100. 0  -1. 59  -1. 59  33. 58  27. 04  102. 3  0. 194  1441. 5
 110. 0  -1. 52  -1. 52  33. 84  27. 25   82. 5  0. 204  1442. 3
 120. 0  -1. 50  -1. 50  34. 04  27. 41   66. 8  0. 211  1442. 9
 130. 0  -1. 43  -1. 44  34. 17  27. 51   57. 4  0. 217  1443. 5
 140. 0  -1. 32  -1. 33  34. 25  27. 58   51. 1  0. 223  1444. 3
 150. 0  -1. 22  -1. 22  34. 32  27. 63   46. 5  0. 228  1445. 1
 160. 0  -1. 09  -1. 09  34. 38  27. 67   42. 5  0. 232  1445. 9
 170. 0  -0. 96  -0. 96  34. 43  27. 71   38. 8  0. 236  1446. 8
 180. 0  -0. 81  -0. 82  34. 49  27. 75   34. 9  0. 240  1447. 7
 190. 0  -0. 66  -0. 66  34. 54  27. 78   31. 9  0. 244  1448. 7
 200. 0  -0. 51  -0. 52  34. 58  27. 81   29. 1  0. 247  1449. 6
 210. 0  -0. 38  -0. 39  34. 61  27. 84   27. 2  0. 250  1450. 4
 220. 0  -0. 25  -0. 26  34. 65  27. 86   25. 1  0. 252  1451. 2
 230. 0  -0. 12  -0. 13  34. 69  27. 88   23. 1  0. 255  1452. 0
 240. 0   0. 00  -0. 01  34. 72  27. 90   21. 6  0. 257  1452. 8
 250. 0   0. 13   0. 12  34. 75  27. 92   19. 7  0. 259  1453. 6
 260. 0   0. 25   0. 24  34. 79  27. 94   17. 6  0. 261  1454. 4
 270. 0   0. 30   0. 29  34. 80  27. 95   16. 7  0. 263  1454. 8
 280. 0   0. 37   0. 35  34. 82  27. 96   16. 1  0. 264  1455. 2
 290. 0   0. 46   0. 45  34. 84  27. 97   15. 0  0. 266  1455. 9
 300. 0   0. 49   0. 48  34. 85  27. 98   14. 0  0. 267  1456. 2
 310. 0   0. 53   0. 51  34. 86  27. 98   13. 9  0. 269  1456. 5
 320. 0   0. 55   0. 54  34. 86  27. 99   13. 8  0. 270  1456. 8
 330. 0   0. 57   0. 55  34. 87  27. 99   13. 6  0. 271  1457. 0
 340. 0   0. 59   0. 58  34. 88  27. 99   13. 0  0. 273  1457. 3
 350. 0   0. 62   0. 60  34. 88  28. 00   12. 8  0. 274  1457. 6
 370. 0   0. 67   0. 66  34. 89  28. 00   12. 4  0. 277  1458. 2
 390. 0   0. 71   0. 70  34. 91  28. 01   11. 8  0. 279  1458. 8
 410. 0   0. 66   0. 64  34. 91  28. 02   11. 2  0. 281  1458. 9
 430. 0   0. 61   0. 59  34. 90  28. 01   11. 2  0. 284  1458. 9
 450. 0   0. 58   0. 56  34. 91  28. 02   10. 7  0. 286  1459. 1
 470. 0   0. 57   0. 55  34. 91  28. 02   10. 5  0. 288  1459. 5
 490. 0   0. 50   0. 48  34. 91  28. 03   10. 2  0. 290  1459. 5
 510. 0   0. 45   0. 42  34. 91  28. 03    9. 6  0. 292  1459. 6
 530. 0   0. 40   0. 38  34. 91  28. 03    9. 5  0. 294  1459. 7
 550. 0   0. 34   0. 32  34. 91  28. 04    9. 0  0. 296  1459. 7
 570. 0   0. 30   0. 28  34. 92  28. 04    8. 4  0. 298  1459. 9
 590. 0   0. 28   0. 25  34. 91  28. 04    8. 4  0. 299  1460. 1
 610. 0   0. 23   0. 21  34. 92  28. 05    7. 9  0. 301  1460. 3
 630. 0   0. 19   0. 17  34. 92  28. 05    7. 3  0. 303  1460. 4
 650. 0   0. 13   0. 10  34. 91  28. 05    7. 6  0. 304  1460. 5
 670. 0   0. 10   0. 07  34. 92  28. 05    7. 0  0. 306  1460. 6
 690. 0   0. 08   0. 05  34. 92  28. 05    6. 9  0. 307  1460. 9
 699. 9   0. 06   0. 03  34. 92  28. 06    6. 1  0. 308  1461. 0

                            DEPTH       TEMP.       SALIN

       BOT NUM = 1           3. 4       -1. 74      31. 64
       BOT NUM = 2          29. 1       -1. 75      31. 64
       BOT NUM = 3         386. 0        0. 72      34. 88
       BOT NUM = 4         701. 4        0. 08      34. 90
```

```
 FRAM 1  STATION  27(1) CTD  12/APR/1979 1848 GMT  CODE = 1
LAT = 84. 4992N LNG =   8. 9697W LTER =        0. LGER =      1.
AIR TEMP = -29. 8 BAROM = 1036. 5 WIND =  63. 0 SPEED =    3. 2

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 73  -1. 73  31. 67  25. 50  249. 0  0. 000  1436. 4
   3. 1  -1. 73  -1. 73  31. 67  25. 50  249. 0  0. 008  1436. 5
   5. 0  -1. 73  -1. 73  31. 66  25. 49  249. 9  0. 013  1436. 5
  10. 0  -1. 73  -1. 73  31. 66  25. 49  250. 1  0. 025  1436. 6
  15. 0  -1. 73  -1. 74  31. 66  25. 49  249. 7  0. 038  1436. 7
  20. 0  -1. 74  -1. 74  31. 66  25. 49  250. 0  0. 050  1436. 7
  25. 0  -1. 74  -1. 74  31. 75  25. 57  242. 6  0. 063  1436. 9
  30. 0  -1. 75  -1. 75  31. 95  25. 72  227. 6  0. 075  1437. 2
  35. 0  -1. 76  -1. 76  32. 08  25. 83  217. 4  0. 086  1437. 5
  40. 0  -1. 76  -1. 77  32. 14  25. 88  212. 5  0. 097  1437. 6
  45. 0  -1. 77  -1. 77  32. 23  25. 95  206. 0  0. 107  1437. 8
  50. 0  -1. 77  -1. 77  32. 46  26. 14  189. 0  0. 117  1438. 2
  55. 0  -1. 77  -1. 77  32. 59  26. 24  178. 1  0. 126  1438. 5
  60. 0  -1. 78  -1. 78  32. 69  26. 32  171. 0  0. 135  1438. 7
  65. 0  -1. 78  -1. 78  32. 73  26. 36  166. 7  0. 144  1438. 8
  70. 0  -1. 78  -1. 78  32. 77  26. 39  163. 6  0. 152  1438. 9
  80. 0  -1. 68  -1. 68  32. 97  26. 55  148. 8  0. 168  1439. 9
  90. 0  -1. 63  -1. 63  33. 31  26. 83  122. 3  0. 181  1440. 7
 100. 0  -1. 54  -1. 55  33. 63  27. 08   98. 1  0. 192  1441. 8
 110. 0  -1. 53  -1. 54  33. 87  27. 28   79. 5  0. 201  1442. 3
 120. 0  -1. 50  -1. 50  34. 04  27. 41   67. 1  0. 209  1442. 9
 130. 0  -1. 44  -1. 44  34. 17  27. 51   57. 4  0. 215  1443. 5
 140. 0  -1. 35  -1. 35  34. 25  27. 58   51. 4  0. 221  1444. 2
 150. 0  -1. 19  -1. 19  34. 33  27. 64   45. 5  0. 225  1445. 3
 160. 0  -1. 05  -1. 05  34. 39  27. 68   41. 3  0. 230  1446. 2
 170. 0  -0. 95  -0. 96  34. 44  27. 72   37. 7  0. 234  1446. 8
 180. 0  -0. 79  -0. 80  34. 49  27. 75   34. 6  0. 237  1447. 8
 190. 0  -0. 63  -0. 63  34. 54  27. 79   31. 6  0. 241  1448. 8
 200. 0  -0. 49  -0. 50  34. 59  27. 81   29. 1  0. 244  1449. 7
 210. 0  -0. 36  -0. 37  34. 62  27. 84   26. 7  0. 247  1450. 5
 220. 0  -0. 25  -0. 25  34. 65  27. 86   24. 9  0. 249  1451. 2
 230. 0  -0. 13  -0. 14  34. 68  27. 88   23. 2  0. 252  1452. 0
 240. 0   0. 03   0. 02  34. 73  27. 91   20. 7  0. 254  1452. 9
 250. 0   0. 16   0. 15  34. 76  27. 93   18. 8  0. 256  1453. 7
 260. 0   0. 28   0. 27  34. 80  27. 95   17. 0  0. 258  1454. 5
 270. 0   0. 30   0. 29  34. 80  27. 95   16. 7  0. 259  1454. 8
 280. 0   0. 34   0. 33  34. 81  27. 96   16. 2  0. 261  1455. 1
 290. 0   0. 44   0. 43  34. 84  27. 97   14. 8  0. 263  1455. 8
 300. 0   0. 51   0. 50  34. 86  27. 98   13. 8  0. 264  1456. 3
 310. 0   0. 55   0. 53  34. 86  27. 99   13. 7  0. 265  1456. 6
 320. 0   0. 57   0. 56  34. 87  27. 99   13. 6  0. 267  1456. 9
 330. 0   0. 57   0. 56  34. 87  27. 99   13. 4  0. 268  1457. 1
 340. 0   0. 63   0. 61  34. 89  28. 00   12. 9  0. 270  1457. 5
 350. 0   0. 63   0. 61  34. 69  28. 00   12. 3  0. 271  1457. 7
 370. 0   0. 66   0. 65  34. 90  28. 00   12. 2  0. 273  1458. 2
 390. 0   0. 70   0. 68  34. 91  28. 01   11. 6  0. 276  1458. 7
 410. 0   0. 65   0. 63  34. 90  28. 01   11. 5  0. 278  1458. 8
 430. 0   0. 63   0. 61  34. 91  28. 02   11. 1  0. 280  1459. 1
 450. 0   0. 59   0. 57  34. 91  28. 02   10. 6  0. 283  1459. 2
 470. 0   0. 59   0. 57  34. 92  28. 03   10. 2  0. 285  1459. 5
 490. 0   0. 46   0. 43  34. 91  28. 03    9. 7  0. 287  1459. 3
 510. 0   0. 44   0. 42  34. 91  28. 03    9. 4  0. 289  1459. 5
 530. 0   0. 40   0. 38  34. 92  28. 04    9. 1  0. 290  1459. 7
 550. 0   0. 34   0. 32  34. 91  28. 04    8. 7  0. 292  1459. 8
 570. 0   0. 28   0. 26  34. 91  28. 04    8. 4  0. 294  1459. 8
 590. 0   0. 25   0. 23  34. 92  28. 05    8. 0  0. 296  1460. 0
 610. 0   0. 22   0. 19  34. 92  28. 05    7. 6  0. 297  1460. 2
 630. 0   0. 17   0. 15  34. 92  28. 05    7. 4  0. 299  1460. 3
 650. 0   0. 12   0. 10  34. 92  28. 05    7. 1  0. 300  1460. 4
 670. 0   0. 09   0. 06  34. 92  28. 05    6. 9  0. 302  1460. 6
 690. 0   0. 06   0. 03  34. 92  28. 05    6. 8  0. 303  1460. 8

                            DEPTH       TEMP.       SALIN

       BOT NUM = 1           2. 7                   31. 65
       BOT NUM = 2          24. 1       -1. 75      31. 68
       BOT NUM = 3         386. 3        0. 71      34. 89
       BOT NUM = 4         699. 3        0. 05      34. 91
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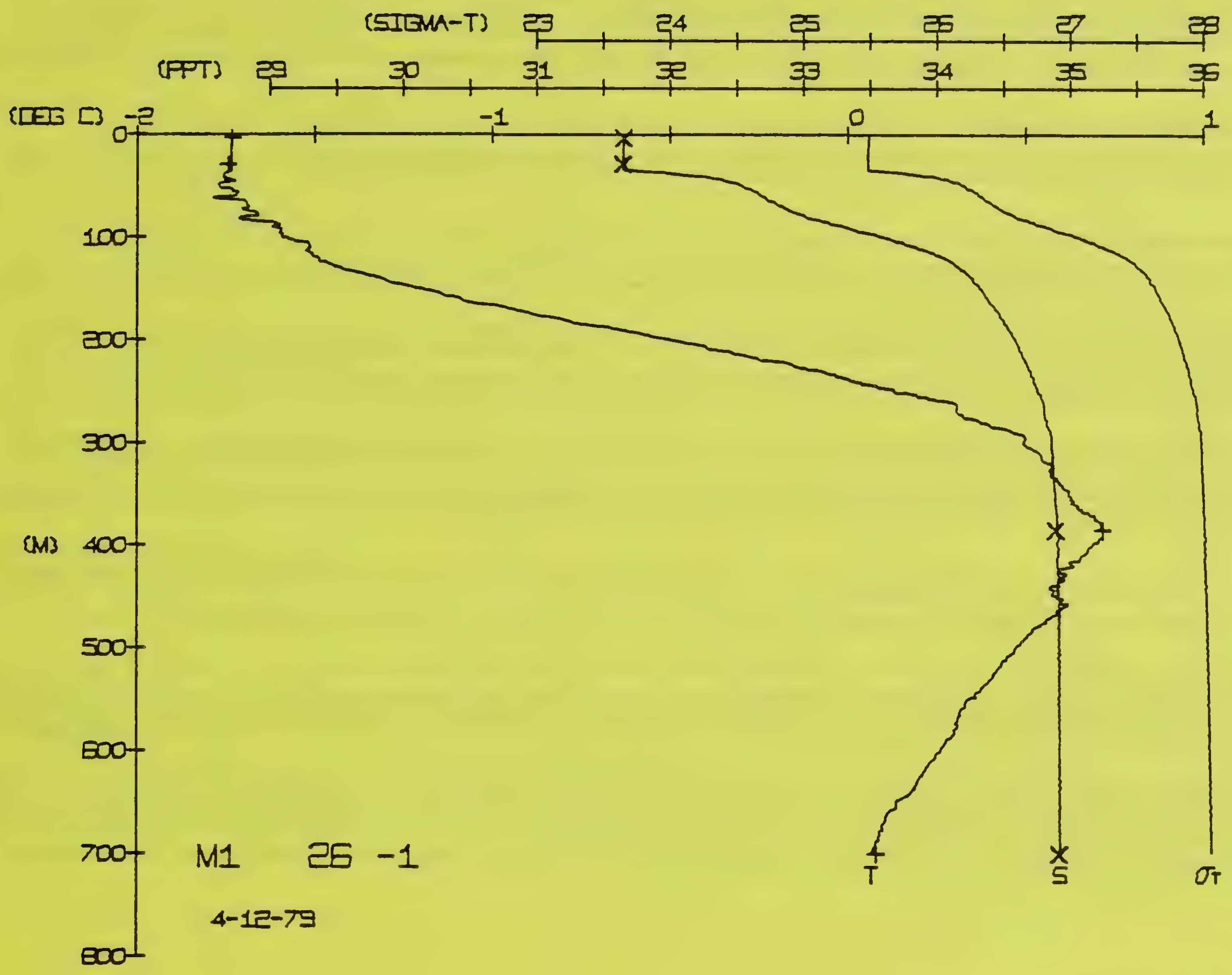
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(M) 400
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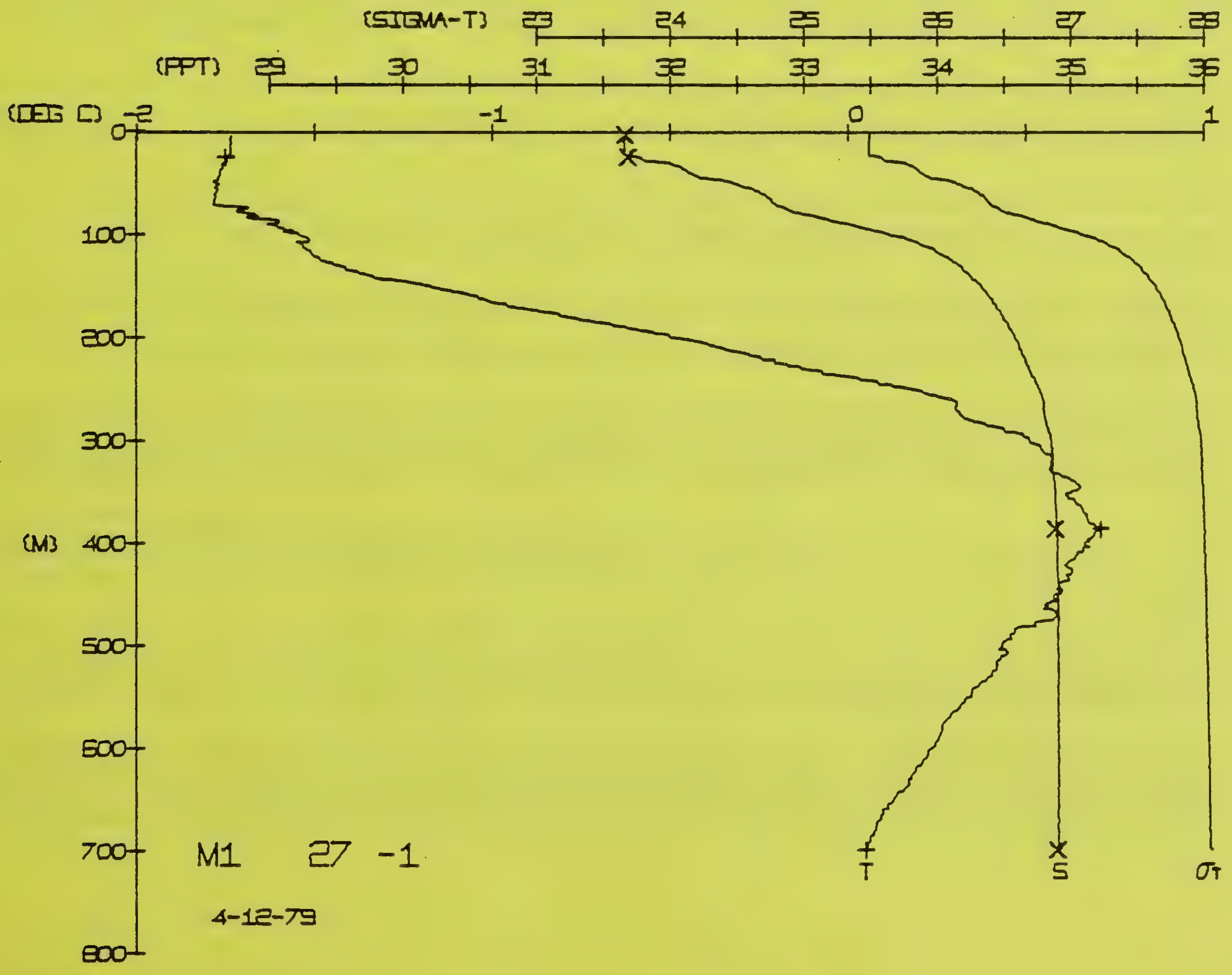
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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 27 -1
4-12-79
T
S
σT

```
  FRAM 1  STATION  28(1) CTD  13/APR/1979   704 GMT   CODE = 1
 LAT = 84.5161N LNG =    9.1220W LTER =       0. LGER =       0.
 AIR TEMP = -29.8 BAROM = 1034.3 WIND =   63.0 SPEED =    3.2

  DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

    0.0   -1.74   -1.74   31.66   25.50   249.6   0.000  1436.4
    3.0   -1.74   -1.74   31.66   25.50   249.5   0.008  1436.5
    5.0   -1.74   -1.74   31.66   25.49   249.7   0.013  1436.5
   10.0   -1.74   -1.74   31.65   25.48   250.6   0.025  1436.6
   15.0   -1.74   -1.74   31.66   25.49   250.1   0.038  1436.7
   20.0   -1.74   -1.74   31.66   25.49   250.0   0.050  1436.7
   25.0   -1.74   -1.74   31.66   25.49   249.7   0.063  1436.8
   30.0   -1.74   -1.74   31.68   25.50   248.5   0.075  1436.9
   35.0   -1.74   -1.74   31.68   25.51   247.9   0.088  1437.0
   40.0   -1.75   -1.75   32.05   25.81   219.4   0.100  1437.5
   45.0   -1.76   -1.76   32.26   25.98   203.0   0.110  1437.9
   50.0   -1.74   -1.74   32.44   26.12   189.3   0.120  1438.3
   55.0   -1.79   -1.79   32.52   26.19   182.8   0.130  1438.3
   60.0   -1.70   -1.71   32.62   26.27   175.6   0.139  1438.9
   65.0   -1.69   -1.69   32.72   26.35   167.8   0.147  1439.2
   70.0   -1.58   -1.58   32.81   26.42   161.0   0.156  1439.9
   80.0   -1.66   -1.66   33.09   26.65   139.5   0.171  1440.1
   90.0   -1.60   -1.60   33.40   26.90   115.8   0.184  1441.0
  100.0   -1.54   -1.54   33.63   27.08    98.5   0.194  1441.8
  110.0   -1.52   -1.53   33.90   27.30    77.8   0.203  1442.4
  120.0   -1.49   -1.49   34.05   27.42    66.2   0.211  1442.9
  130.0   -1.42   -1.43   34.17   27.51    57.3   0.217  1443.6
  140.0   -1.34   -1.34   34.24   27.57    51.9   0.222  1444.2
  150.0   -1.18   -1.19   34.33   27.64    45.6   0.227  1445.3
  160.0   -1.03   -1.04   34.39   27.68    41.8   0.232  1446.2
  170.0   -0.91   -0.92   34.45   27.72    37.7   0.236  1447.0
  180.0   -0.82   -0.83   34.48   27.75    35.4   0.239  1447.7
  190.0   -0.68   -0.69   34.54   27.78    31.9   0.243  1448.6
  200.0   -0.51   -0.51   34.59   27.82    28.8   0.246  1449.6
  210.0   -0.36   -0.36   34.62   27.84    27.3   0.249  1450.5
  220.0   -0.20   -0.21   34.66   27.86    24.6   0.251  1451.4
  230.0   -0.10   -0.11   34.69   27.88    22.7   0.254  1452.1
  240.0    0.03    0.02   34.72   27.90    21.1   0.256  1452.9
  250.0    0.16    0.15   34.76   27.93    18.9   0.258  1453.7
  260.0    0.26    0.25   34.80   27.95    16.9   0.260  1454.4
  270.0    0.31    0.30   34.81   27.95    16.6   0.261  1454.8
  280.0    0.35    0.34   34.81   27.96    16.2   0.263  1455.2
  290.0    0.44    0.43   34.83   27.97    15.2   0.265  1455.8
  300.0    0.50    0.48   34.85   27.98    14.4   0.266  1456.2
  310.0    0.54    0.52   34.86   27.99    13.7   0.268  1456.6
  320.0    0.56    0.55   34.87   27.99    13.7   0.269  1456.9
  330.0    0.56    0.55   34.86   27.98    13.8   0.270  1457.0
  340.0    0.59    0.57   34.87   27.99    13.2   0.272  1457.3
  350.0    0.62    0.60   34.88   28.00    12.8   0.273  1457.6
  370.0    0.68    0.66   34.89   28.00    12.4   0.276  1458.2
  390.0    0.69    0.67   34.90   28.01    12.0   0.278  1458.6
  410.0    0.63    0.61   34.90   28.01    11.9   0.280  1458.7
  430.0    0.60    0.58   34.91   28.02    10.8   0.283  1458.9
  450.0    0.58    0.56   34.91   28.02    10.6   0.285  1459.1
  470.0    0.52    0.50   34.91   28.02    10.2   0.287  1459.2
  490.0    0.48    0.46   34.91   28.03     9.8   0.289  1459.4
  510.0    0.42    0.39   34.91   28.03     9.7   0.291  1459.4
  530.0    0.38    0.36   34.92   28.04     9.0   0.293  1459.6
  550.0    0.35    0.32   34.92   28.04     8.5   0.295  1459.8
  570.0    0.34    0.32   34.91   28.04     8.9   0.296  1460.1
  590.0    0.27    0.24   34.92   28.04     8.2   0.298  1460.1
  610.0    0.21    0.18   34.91   28.05     7.9   0.300  1460.1
  630.0    0.18    0.15   34.91   28.05     7.8   0.301  1460.3
  650.0    0.15    0.12   34.91   28.05     7.5   0.303  1460.5
  670.0    0.10    0.07   34.92   28.06     6.8   0.304  1460.7
  690.0    0.06    0.03   34.91   28.05     7.1   0.306  1460.8
  698.5    0.05    0.02   34.93   28.06     5.9   0.306  1460.9

                          DEPTH       TEMP.       SALIN

         BOT NUM = 1        3.2                   31.65
         BOT NUM = 2       27.5       -1.73       31.65
         BOT NUM = 3      386.5        0.70       34.88
         BOT NUM = 4      700.3        0.06       34.91
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  FRAM 1  STATION  29(1) CTD  13/APR/1979 1834 GMT   CODE = 1
 LAT = 84.5284N LNG =    9.2613W LTER =       2. LGER =       5.
 AIR TEMP = -28.9 BAROM = 1036.6 WIND =   97.0 SPEED =    4.6

  DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

    0.0   -1.73   -1.73   31.67   25.50   249.4   0.000  1436.4
    3.0   -1.73   -1.73   31.67   25.50   249.4   0.008  1436.5
    5.0   -1.74   -1.74   31.67   25.50   249.1   0.013  1436.5
   10.0   -1.74   -1.74   31.66   25.49   249.6   0.025  1436.6
   15.0   -1.74   -1.74   31.66   25.49   250.0   0.038  1436.7
   20.0   -1.74   -1.74   31.66   25.49   249.4   0.050  1436.7
   25.0   -1.74   -1.74   31.66   25.49   249.7   0.063  1436.8
   30.0   -1.74   -1.74   31.67   25.50   248.8   0.075  1436.9
   35.0   -1.74   -1.74   31.68   25.51   248.0   0.088  1437.0
   40.0   -1.74   -1.74   31.82   25.62   237.4   0.100  1437.3
   45.0   -1.76   -1.76   32.19   25.92   208.9   0.111  1437.8
   50.0   -1.76   -1.76   32.42   26.10   191.2   0.121  1438.2
   55.0   -1.78   -1.78   32.55   26.21   181.0   0.131  1438.4
   60.0   -1.70   -1.70   32.63   26.28   174.7   0.140  1438.9
   65.0   -1.70   -1.70   32.72   26.35   167.9   0.148  1439.2
   70.0   -1.69   -1.69   32.83   26.44   159.3   0.157  1439.5
   80.0   -1.57   -1.57   33.04   26.60   143.8   0.172  1440.5
   90.0   -1.59   -1.59   33.38   26.88   117.1   0.185  1441.0
  100.0   -1.60   -1.60   33.69   27.13    93.7   0.196  1441.6
  110.0   -1.53   -1.54   33.88   27.29    79.0   0.204  1442.3
  120.0   -1.50   -1.50   34.04   27.42    66.6   0.212  1442.9
  130.0   -1.44   -1.44   34.16   27.51    58.1   0.218  1443.5
  140.0   -1.32   -1.32   34.26   27.59    50.4   0.223  1444.4
  150.0   -1.17   -1.18   34.33   27.64    45.3   0.228  1445.3
  160.0   -1.07   -1.07   34.39   27.68    41.5   0.233  1446.0
  170.0   -0.95   -0.96   34.45   27.72    37.4   0.237  1446.9
  180.0   -0.81   -0.81   34.50   27.76    34.4   0.240  1447.8
  190.0   -0.63   -0.63   34.55   27.79    31.1   0.244  1448.8
  200.0   -0.48   -0.48   34.60   27.82    28.2   0.247  1449.8
  210.0   -0.36   -0.37   34.62   27.84    27.0   0.249  1450.5
  220.0   -0.20   -0.21   34.66   27.86    24.6   0.252  1451.4
  230.0   -0.09   -0.10   34.69   27.88    22.8   0.254  1452.2
  240.0    0.04    0.03   34.73   27.91    20.5   0.257  1453.0
  250.0    0.17    0.16   34.77   27.93    18.6   0.259  1453.8
  260.0    0.28    0.27   34.80   27.95    17.0   0.260  1454.5
  270.0    0.30    0.29   34.81   27.95    16.5   0.262  1454.8
  280.0    0.36    0.35   34.82   27.96    16.1   0.264  1455.2
  290.0    0.46    0.45   34.85   27.98    14.3   0.265  1455.9
  300.0    0.50    0.49   34.86   27.99    13.5   0.267  1456.3
  310.0    0.54    0.53   34.86   27.98    14.0   0.268  1456.6
  320.0    0.58    0.56   34.87   27.99    13.5   0.269  1456.9
  330.0    0.58    0.56   34.87   27.99    13.5   0.271  1457.1
  340.0    0.58    0.57   34.88   28.00    12.8   0.272  1457.3
  350.0    0.62    0.61   34.89   28.00    12.3   0.273  1457.7
  370.0    0.67    0.65   34.90   28.01    11.9   0.276  1458.2
  390.0    0.68    0.67   34.90   28.01    11.8   0.278  1458.6
  410.0    0.63    0.61   34.90   28.01    11.8   0.281  1458.7
  430.0    0.59    0.57   34.91   28.02    11.0   0.283  1458.9
  450.0    0.57    0.55   34.91   28.02    10.8   0.285  1459.1
  470.0    0.53    0.51   34.91   28.02    10.5   0.287  1459.3
  490.0    0.50    0.48   34.91   28.03    10.0   0.289  1459.5
  510.0    0.45    0.42   34.92   28.03     9.3   0.291  1459.6
  530.0    0.41    0.39   34.92   28.04     8.8   0.293  1459.7
  550.0    0.38    0.35   34.92   28.04     8.6   0.295  1459.9
  570.0    0.28    0.25   34.91   28.04     8.5   0.297  1459.8
  590.0    0.24    0.21   34.92   28.05     7.8   0.298  1460.0
  610.0    0.20    0.17   34.92   28.05     7.7   0.300  1460.1
  630.0    0.18    0.15   34.92   28.05     7.5   0.301  1460.3
  650.0    0.13    0.10   34.92   28.06     6.8   0.303  1460.5
  670.0    0.09    0.06   34.92   28.06     6.8   0.304  1460.6
  690.0    0.07    0.04   34.91   28.05     7.1   0.306  1460.8

                          DEPTH       TEMP.       SALIN

         BOT NUM = 1        3.7                   31.69
         BOT NUM = 2       29.3       -1.74       31.65
         BOT NUM = 3      387.8        0.69       34.88
         BOT NUM = 4      702.6        0.04       34.91
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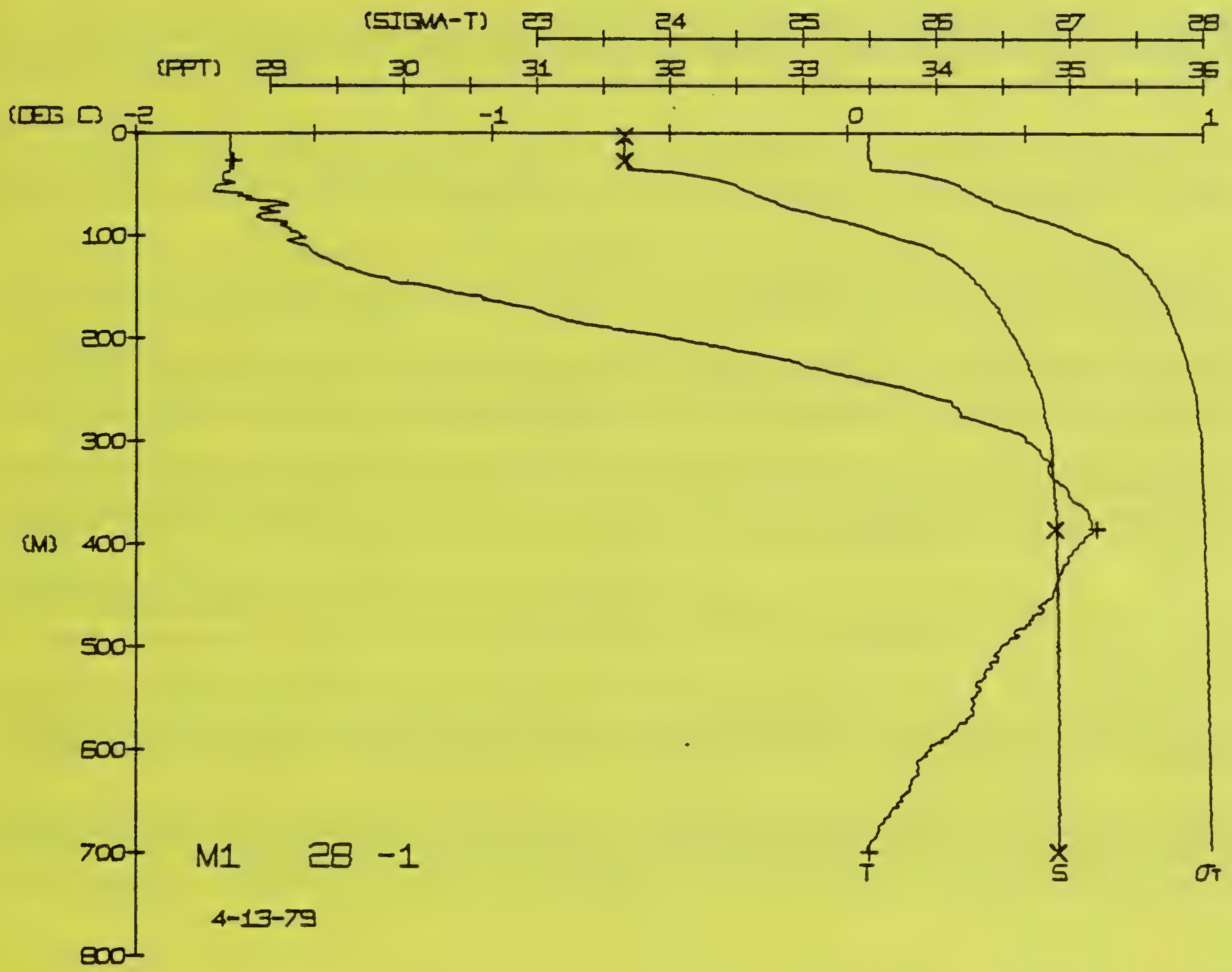
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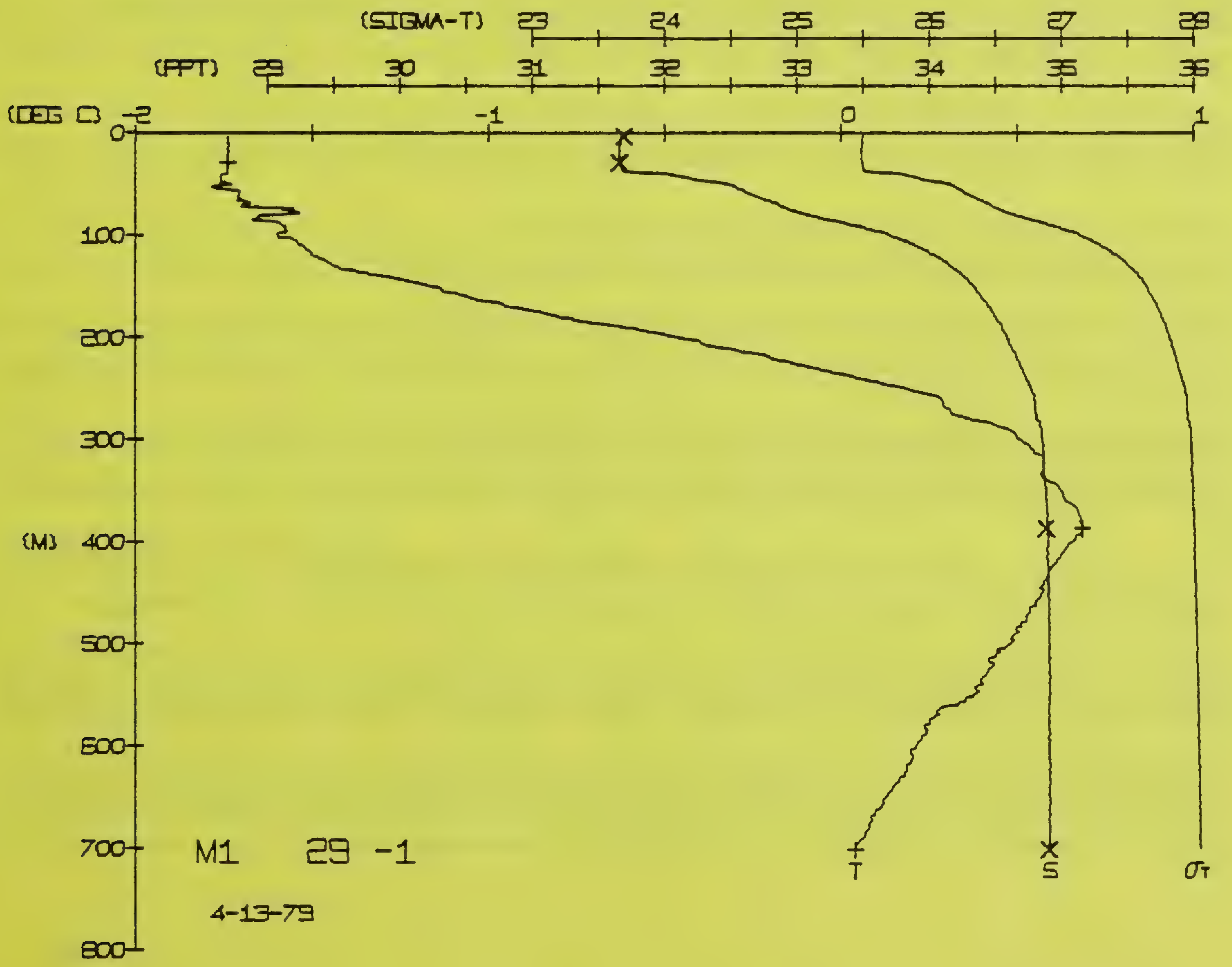
S
σT


(SIGMA-T) 23 24 25 26 27 28
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 29 -1
4-13-79
T
S
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```
FRAM 1   STATION  30(1) CTD  14/APR/1979   724 GMT   CODE = 1
LAT = 84.5236N LNG =   9.2587W LTER =      12.  LGER =      30.
AIR TEMP = -28.9 BAROM = 1040.8 WIND =   97.0 SPEED =     4.6

 DEPTH     TEMP    PTEMP    SALIN    SIG T    SPVOL    DYNHT    SOUND

   0.0    -1.74    -1.74    31.67    25.50    249.0    0.000   1436.4
   3.1    -1.74    -1.74    31.67    25.50    248.9    0.008   1436.5
   5.0    -1.74    -1.74    31.67    25.50    249.2    0.013   1436.5
  10.0    -1.74    -1.74    31.67    25.50    249.4    0.025   1436.6
  15.0    -1.74    -1.74    31.66    25.49    249.5    0.038   1436.7
  20.0    -1.73    -1.73    31.66    25.49    249.6    0.050   1436.8
  25.0    -1.73    -1.73    31.67    25.50    248.7    0.063   1436.9
  30.0    -1.74    -1.74    31.73    25.55    244.1    0.075   1437.0
  35.0    -1.75    -1.75    31.88    25.67    232.8    0.087   1437.2
  40.0    -1.76    -1.76    32.04    25.80    220.6    0.099   1437.5
  45.0    -1.77    -1.77    32.18    25.91    209.8    0.109   1437.7
  50.0    -1.73    -1.73    32.41    26.10    191.8    0.120   1438.3
  55.0    -1.78    -1.79    32.57    26.22    179.7    0.129   1438.4
  60.0    -1.70    -1.70    32.65    26.29    173.1    0.138   1439.0
  65.0    -1.71    -1.71    32.73    26.36    167.1    0.146   1439.1
  70.0    -1.71    -1.71    32.79    26.40    162.8    0.155   1439.3
  80.0    -1.63    -1.63    32.97    26.55    148.5    0.170   1440.1
  90.0    -1.61    -1.61    33.31    26.82    123.0    0.184   1440.8
 100.0    -1.54    -1.55    33.59    27.05    101.3    0.195   1441.7
 110.0    -1.54    -1.55    33.83    27.24     83.1    0.205   1442.2
 120.0    -1.51    -1.51    34.00    27.38     70.3    0.212   1442.8
 130.0    -1.44    -1.45    34.14    27.49     59.4    0.219   1443.4
 140.0    -1.35    -1.35    34.25    27.58     51.3    0.225   1444.2
 150.0    -1.18    -1.19    34.32    27.63     46.3    0.229   1445.2
 160.0    -1.04    -1.04    34.39    27.68     41.5    0.234   1446.2
 170.0    -0.94    -0.94    34.44    27.72     38.2    0.238   1446.9
 180.0    -0.83    -0.84    34.48    27.75     35.5    0.242   1447.6
 190.0    -0.72    -0.73    34.52    27.77     32.8    0.245   1448.3
 200.0    -0.56    -0.57    34.57    27.81     29.6    0.248   1449.3
 210.0    -0.40    -0.40    34.61    27.83     27.5    0.251   1450.3
 220.0    -0.25    -0.26    34.65    27.85     25.5    0.254   1451.2
 230.0    -0.12    -0.13    34.68    27.88     23.6    0.256   1452.0
 240.0     0.02     0.01    34.72    27.90     21.3    0.259   1452.9
 250.0     0.16     0.15    34.77    27.93     18.7    0.261   1453.7
 260.0     0.29     0.28    34.80    27.95     16.9    0.262   1454.5
 270.0     0.31     0.30    34.80    27.95     16.7    0.264   1454.8
 280.0     0.34     0.33    34.81    27.96     16.1    0.266   1455.1
 290.0     0.44     0.43    34.84    27.97     14.8    0.267   1455.8
 300.0     0.50     0.49    34.86    27.98     13.8    0.269   1456.2
 310.0     0.53     0.51    34.86    27.98     13.9    0.270   1456.5
 320.0     0.58     0.56    34.87    27.99     13.6    0.272   1456.9
 330.0     0.58     0.57    34.87    27.99     13.6    0.273   1457.1
 340.0     0.59     0.58    34.88    27.99     13.0    0.274   1457.4
 350.0     0.61     0.59    34.89    28.00     12.5    0.276   1457.6
 370.0     0.63     0.62    34.89    28.00     12.5    0.278   1458.0
 390.0     0.67     0.65    34.90    28.01     11.9    0.281   1458.6
 410.0     0.58     0.56    34.89    28.01     11.9    0.283   1458.5
 430.0     0.58     0.56    34.91    28.02     10.6    0.285   1458.8
 450.0     0.60     0.58    34.92    28.02     10.3    0.287   1459.2
 470.0     0.57     0.55    34.91    28.02     10.9    0.289   1459.4
 490.0     0.50     0.48    34.90    28.02     10.5    0.292   1459.4
 510.0     0.44     0.41    34.91    28.03      9.4    0.294   1459.5
 530.0     0.39     0.37    34.91    28.03      9.2    0.296   1459.6
 550.0     0.35     0.33    34.91    28.04      8.9    0.297   1459.8
 570.0     0.32     0.29    34.92    28.04      8.2    0.299   1460.0
 590.0     0.27     0.25    34.92    28.05      8.0    0.301   1460.1
 610.0     0.22     0.19    34.91    28.04      8.1    0.302   1460.2
 630.0     0.17     0.15    34.91    28.05      7.7    0.304   1460.3
 650.0     0.13     0.11    34.92    28.05      7.0    0.305   1460.5
 670.0     0.10     0.07    34.91    28.05      7.2    0.307   1460.7
 690.0     0.07     0.04    34.92    28.06      6.6    0.308   1460.9
 698.5     0.07     0.04    34.91    28.05      6.9    0.309   1461.0

                            DEPTH        TEMP.        SALIN

        BOT NUM = 1          3.6                      31.67
        BOT NUM = 2         29.5        -1.75         31.68
        BOT NUM = 3        385.4         0.69
        BOT NUM = 4        698.1         0.08         34.90
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```
FRAM 1   STATION  31(1) CTD  14/APR/1979  1828 GMT   CODE = 1
LAT = 84.5213N LNG =   9.2509W LTER =       0.  LGER =       0.
AIR TEMP = -29.3 BAROM = 1041.4 WIND =   87.0 SPEED =     2.3

 DEPTH     TEMP    PTEMP    SALIN    SIG T    SPVOL    DYNHT    SOUND

   0.0    -1.73    -1.73    31.68    25.51    248.6    0.000   1436.5
   3.0    -1.73    -1.73    31.68    25.51    248.6    0.008   1436.5
   5.0    -1.73    -1.73    31.67    25.50    249.2    0.013   1436.5
  10.0    -1.73    -1.73    31.67    25.50    249.3    0.025   1436.6
  15.0    -1.73    -1.73    31.67    25.50    249.3    0.038   1436.7
  20.0    -1.73    -1.73    31.67    25.50    249.3    0.050   1436.8
  25.0    -1.73    -1.73    31.67    25.50    249.3    0.063   1436.9
  30.0    -1.74    -1.74    31.75    25.56    242.8    0.075   1437.0
  35.0    -1.76    -1.76    32.03    25.79    221.0    0.087   1437.4
  40.0    -1.76    -1.76    32.13    25.87    213.2    0.098   1437.6
  45.0    -1.77    -1.77    32.31    26.02    199.7    0.108   1437.9
  50.0    -1.78    -1.78    32.51    26.18    184.0    0.118   1438.2
  55.0    -1.78    -1.78    32.60    26.25    177.4    0.127   1438.4
  60.0    -1.78    -1.78    32.68    26.32    171.1    0.136   1438.6
  65.0    -1.78    -1.78    32.74    26.36    166.5    0.144   1438.8
  70.0    -1.78    -1.78    32.79    26.41    162.5    0.152   1439.0
  80.0    -1.67    -1.67    32.90    26.50    153.7    0.168   1439.8
  90.0    -1.60    -1.60    33.27    26.79    125.6    0.182   1440.8
 100.0    -1.59    -1.59    33.57    27.03    103.0    0.194   1441.5
 110.0    -1.57    -1.57    33.83    27.24     83.1    0.203   1442.1
 120.0    -1.51    -1.51    34.02    27.40     68.1    0.211   1442.8
 130.0    -1.44    -1.44    34.17    27.52     57.1    0.217   1443.5
 140.0    -1.33    -1.33    34.26    27.59     50.3    0.223   1444.3
 150.0    -1.19    -1.19    34.33    27.64     45.6    0.228   1445.3
 160.0    -1.08    -1.09    34.38    27.68     41.9    0.232   1446.0
 170.0    -0.99    -0.99    34.43    27.71     38.6    0.236   1446.7
 180.0    -0.83    -0.84    34.48    27.75     35.2    0.240   1447.6
 190.0    -0.69    -0.70    34.53    27.78     32.2    0.243   1448.5
 200.0    -0.52    -0.52    34.59    27.82     28.9    0.246   1449.6
 210.0    -0.38    -0.39    34.63    27.85     26.1    0.249   1450.4
 220.0    -0.24    -0.24    34.66    27.86     24.8    0.252   1451.3
 230.0    -0.10    -0.11    34.69    27.88     22.9    0.254   1452.1
 240.0     0.00     0.00    34.72    27.90     20.9    0.256   1452.8
 250.0     0.14     0.13    34.76    27.93     18.7    0.258   1453.6
 260.0     0.26     0.25    34.79    27.94     17.5    0.260   1454.4
 270.0     0.31     0.30    34.80    27.95     16.7    0.262   1454.8
 280.0     0.34     0.32    34.81    27.96     16.1    0.263   1455.1
 290.0     0.43     0.42    34.84    27.97     14.8    0.265   1455.7
 300.0     0.51     0.50    34.86    27.98     13.8    0.266   1456.3
 310.0     0.54     0.53    34.87    27.99     13.4    0.268   1456.6
 320.0     0.57     0.56    34.87    27.99     13.4    0.269   1456.9
 330.0     0.57     0.56    34.87    27.99     13.5    0.271   1457.1
 340.0     0.58     0.56    34.87    27.99     13.1    0.272   1457.3
 350.0     0.62     0.60    34.88    28.00     12.6    0.273   1457.6
 370.0     0.66     0.64    34.90    28.00     12.2    0.276   1458.2
 390.0     0.69     0.67    34.90    28.01     11.8    0.278   1458.6
 410.0     0.64     0.62    34.90    28.01     11.7    0.281   1458.8
 430.0     0.60     0.58    34.91    28.02     11.1    0.283   1458.9
 450.0     0.57     0.55    34.91    28.02     10.7    0.285   1459.1
 470.0     0.54     0.52    34.91    28.03     10.1    0.287   1459.3
 490.0     0.49     0.47    34.91    28.03      9.7    0.289   1459.4
 510.0     0.44     0.42    34.91    28.03      9.5    0.291   1459.5
 530.0     0.40     0.38    34.91    28.03      9.2    0.293   1459.7
 550.0     0.35     0.33    34.91    28.04      9.1    0.295   1459.8
 570.0     0.31     0.28    34.91    28.04      8.8    0.297   1459.9
 590.0     0.26     0.23    34.91    28.04      8.3    0.298   1460.0
 610.0     0.23     0.20    34.92    28.05      7.4    0.300   1460.2
 630.0     0.17     0.15    34.92    28.05      7.5    0.301   1460.3
 650.0     0.15     0.12    34.91    28.05      7.5    0.303   1460.5
 670.0     0.11     0.08    34.92    28.05      6.9    0.304   1460.7
 690.0     0.08     0.05    34.92    28.06      6.8    0.306   1460.9
 698.9     0.06     0.03    34.94    28.08      4.7    0.306   1461.0

                            DEPTH        TEMP.        SALIN

        BOT NUM = 1          3.0                      31.66
        BOT NUM = 2         26.0        -1.73         31.66
        BOT NUM = 3         25.7        -1.73         31.65
        BOT NUM = 4        386.9         0.69
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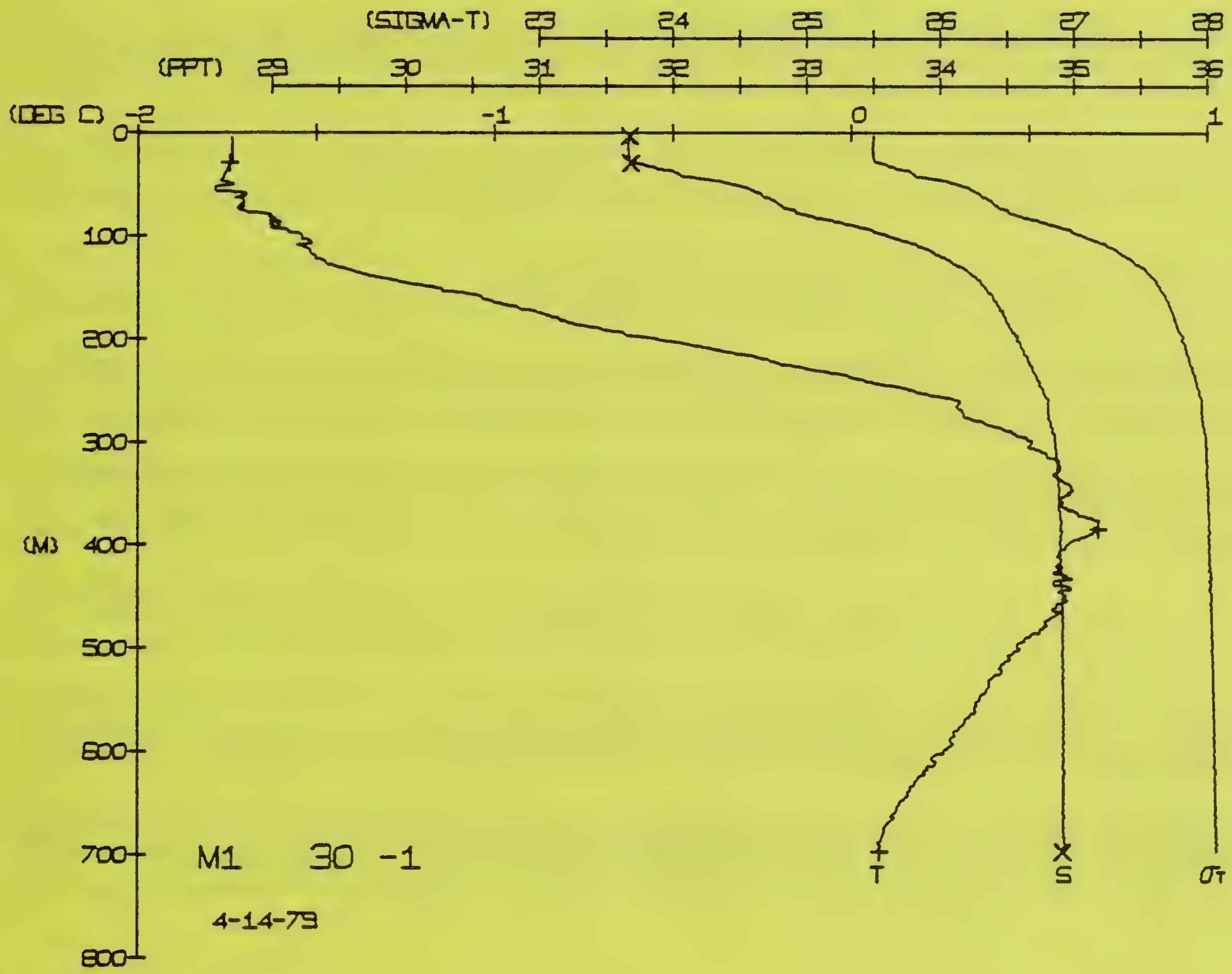
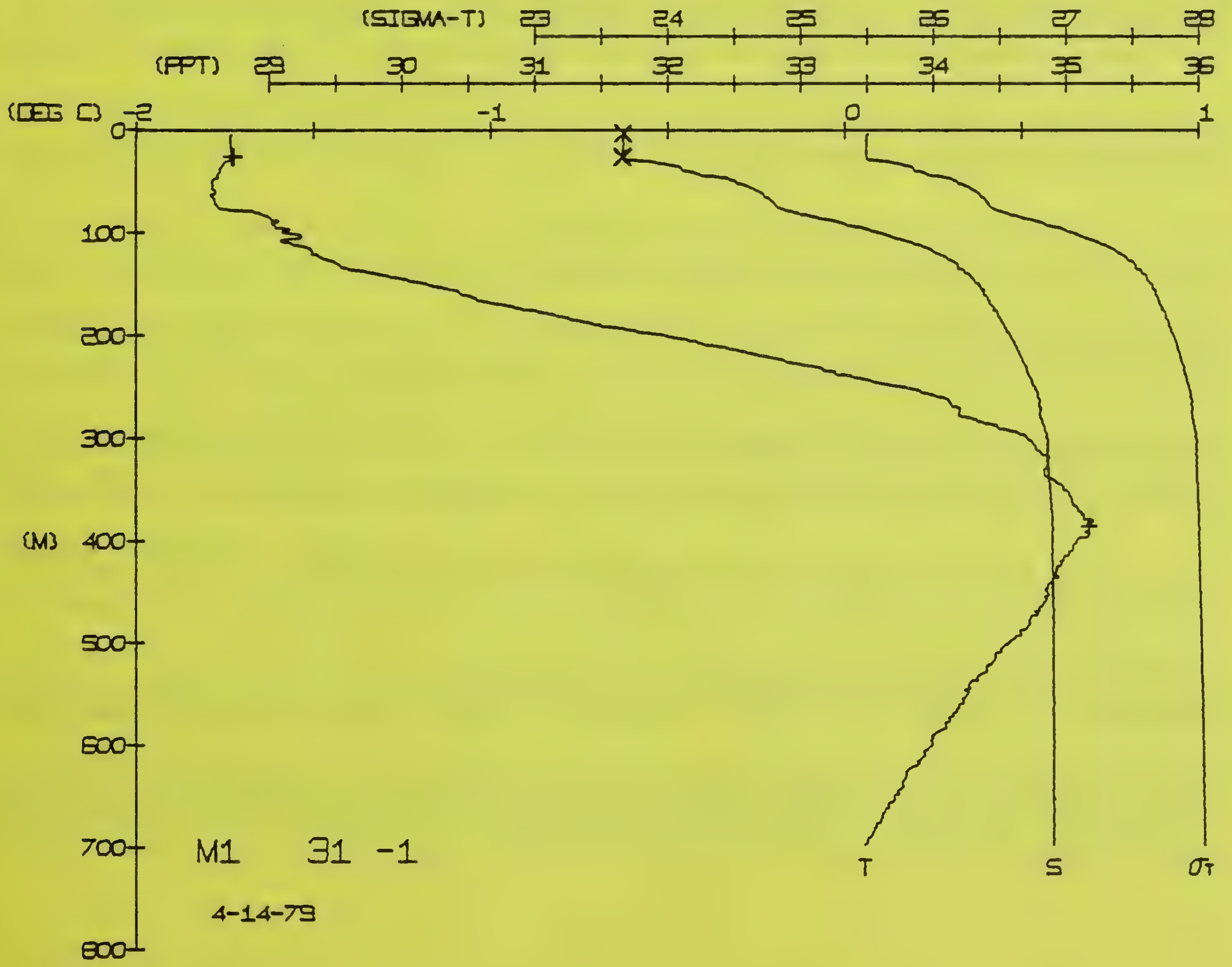


M1 30 -1

4-14-79



M1 31 -1

4-14-79

```
 FRAM 1  STATION  32(1) CTD  15/APR/1979  928 GMT  CODE = 1
LAT = 84. 5187N LNG =    9. 2420W LTER =       1.  LGER =       1.
AIR TEMP = -29. 3 BAROM = 1041. 3 WIND =  87. 0 SPEED =    2. 3

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 73  -1. 73  31. 67  25. 50  249. 3  0. 000  1436. 4
   3. 1  -1. 73  -1. 74  31. 67  25. 50  249. 3  0. 008  1436. 5
   5. 0  -1. 73  -1. 73  31. 67  25. 50  249. 5  0. 013  1436. 5
  10. 0  -1. 74  -1. 74  31. 66  25. 49  249. 9  0. 025  1436. 6
  15. 0  -1. 73  -1. 73  31. 65  25. 49  250. 2  0. 038  1436. 7
  20. 0  -1. 73  -1. 73  31. 65  25. 48  250. 5  0. 050  1436. 7
  25. 0  -1. 73  -1. 74  31. 66  25. 49  249. 8  0. 063  1436. 8
  30. 0  -1. 74  -1. 74  31. 67  25. 50  248. 9  0. 075  1436. 9
  35. 0  -1. 76  -1. 76  32. 02  25. 78  222. 1  0. 087  1437. 4
  40. 0  -1. 76  -1. 76  32. 14  25. 88  212. 9  0. 098  1437. 6
  45. 0  -1. 77  -1. 77  32. 24  25. 96  204. 6  0. 109  1437. 8
  50. 0  -1. 78  -1. 78  32. 46  26. 14  188. 1  0. 119  1438. 2
  55. 0  -1. 78  -1. 78  32. 57  26. 23  179. 6  0. 128  1438. 4
  60. 0  -1. 78  -1. 78  32. 64  26. 28  174. 2  0. 137  1438. 6
  65. 0  -1. 77  -1. 77  32. 72  26. 35  167. 7  0. 145  1438. 8
  70. 0  -1. 75  -1. 75  32. 78  26. 39  163. 5  0. 154  1439. 1
  80. 0  -1. 71  -1. 71  32. 94  26. 53  150. 8  0. 170  1439. 7
  90. 0  -1. 60  -1. 60  33. 26  26. 78  126. 8  0. 184  1440. 8
 100. 0  -1. 57  -1. 58  33. 55  27. 01  104. 6  0. 195  1441. 5
 110. 0  -1. 55  -1. 55  33. 81  27. 22   84. 8  0. 205  1442. 1
 120. 0  -1. 51  -1. 51  34. 01  27. 39   68. 8  0. 213  1442. 8
 130. 0  -1. 45  -1. 45  34. 15  27. 50   58. 4  0. 219  1443. 5
 140. 0  -1. 37  -1. 38  34. 22  27. 56   53. 3  0. 225  1444. 1
 150. 0  -1. 24  -1. 24  34. 31  27. 62   47. 1  0. 230  1445. 0
 160. 0  -1. 08  -1. 08  34. 38  27. 68   42. 0  0. 234  1446. 0
 170. 0  -0. 98  -0. 98  34. 43  27. 71   38. 9  0. 238  1446. 7
 180. 0  -0. 84  -0. 85  34. 49  27. 75   35. 0  0. 242  1447. 6
 190. 0  -0. 70  -0. 71  34. 53  27. 78   32. 5  0. 245  1448. 4
 200. 0  -0. 54  -0. 54  34. 57  27. 81   29. 7  0. 249  1449. 4
 210. 0  -0. 40  -0. 41  34. 61  27. 83   27. 4  0. 251  1450. 3
 220. 0  -0. 27  -0. 28  34. 64  27. 85   25. 5  0. 254  1451. 1
 230. 0  -0. 16  -0. 17  34. 67  27. 87   23. 9  0. 257  1451. 8
 240. 0  -0. 03  -0. 04  34. 71  27. 90   21. 5  0. 259  1452. 6
 250. 0   0. 12   0. 11  34. 75  27. 92   19. 6  0. 261  1453. 5
 260. 0   0. 24   0. 23  34. 78  27. 94   17. 8  0. 263  1454. 3
 270. 0   0. 30   0. 29  34. 80  27. 95   16. 7  0. 265  1454. 8
 280. 0   0. 32   0. 31  34. 80  27. 95   16. 8  0. 266  1455. 0
 290. 0   0. 44   0. 42  34. 84  27. 97   15. 0  0. 268  1455. 8
 300. 0   0. 50   0. 48  34. 85  27. 98   14. 4  0. 269  1456. 2
 310. 0   0. 53   0. 52  34. 86  27. 99   13. 6  0. 271  1456. 6
 320. 0   0. 57   0. 56  34. 86  27. 98   13. 8  0. 272  1456. 9
 330. 0   0. 58   0. 56  34. 87  27. 99   13. 1  0. 274  1457. 1
 340. 0   0. 57   0. 56  34. 87  27. 99   13. 3  0. 275  1457. 2
 350. 0   0. 63   0. 61  34. 89  28. 00   12. 7  0. 276  1457. 7
 370. 0   0. 70   0. 69  34. 90  28. 01   11. 8  0. 279  1458. 3
 390. 0   0. 70   0. 68  34. 90  28. 01   11. 9  0. 281  1458. 7
 410. 0   0. 66   0. 64  34. 90  28. 01   11. 9  0. 284  1458. 8
 430. 0   0. 61   0. 59  34. 90  28. 01   11. 2  0. 286  1458. 9
 450. 0   0. 58   0. 56  34. 91  28. 02   11. 0  0. 288  1459. 2
 470. 0   0. 56   0. 53  34. 91  28. 02   10. 8  0. 290  1459. 4
 490. 0   0. 51   0. 49  34. 91  28. 02   10. 2  0. 292  1459. 5
 510. 0   0. 45   0. 43  34. 91  28. 03    9. 8  0. 294  1459. 6
 530. 0   0. 39   0. 37  34. 91  28. 03    9. 2  0. 296  1459. 7
 550. 0   0. 34   0. 31  34. 91  28. 04    9. 0  0. 298  1459. 7
 570. 0   0. 29   0. 26  34. 91  28. 04    8. 5  0. 300  1459. 8
 590. 0   0. 27   0. 24  34. 92  28. 04    8. 2  0. 302  1460. 1
 610. 0   0. 23   0. 20  34. 93  28. 05    7. 2  0. 303  1460. 3
 630. 0   0. 19   0. 16  34. 92  28. 05    7. 5  0. 305  1460. 4
 650. 0   0. 15   0. 12  34. 92  28. 05    7. 3  0. 306  1460. 5
 670. 0   0. 11   0. 08  34. 92  28. 05    7. 0  0. 308  1460. 7
 690. 0   0. 08   0. 05  34. 92  28. 06    6. 5  0. 309  1460. 9
 699. 5   0. 07   0. 04  34. 93  28. 07    5. 5  0. 310  1461. 0

                         DEPTH       TEMP.       SALIN

     BOT NUM = 1           3. 2                  31. 65
     BOT NUM = 2          38. 0     -1. 75
     BOT NUM = 3         418. 3      0. 64       34. 88
     BOT NUM = 4         697. 3      0. 08       34. 90
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```
 FRAM 1  STATION  33(1) CTD  15/APR/1979 1830 GMT  CODE = 1
LAT = 84. 5186N LNG =    9. 2459W LTER =       0.  LGER =       0.
AIR TEMP = -30. 8 BAROM = 1041. 0 WIND =  98. 0 SPEED =    2. 8

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  31. 67  25. 50  249. 5  0. 000  1436. 4
   3. 1  -1. 74  -1. 74  31. 67  25. 50  249. 5  0. 008  1436. 5
   5. 0  -1. 74  -1. 74  31. 67  25. 50  249. 5  0. 013  1436. 5
  10. 0  -1. 74  -1. 74  31. 66  25. 49  249. 7  0. 025  1436. 6
  15. 0  -1. 74  -1. 74  31. 66  25. 49  249. 5  0. 038  1436. 7
  20. 0  -1. 74  -1. 74  31. 66  25. 49  249. 7  0. 050  1436. 8
  25. 0  -1. 73  -1. 73  31. 66  25. 49  250. 0  0. 063  1436. 8
  30. 0  -1. 73  -1. 73  31. 66  25. 50  249. 3  0. 075  1436. 9
  35. 0  -1. 75  -1. 75  32. 03  25. 79  221. 2  0. 087  1437. 4
  40. 0  -1. 77  -1. 77  32. 19  25. 92  208. 9  0. 098  1437. 7
  45. 0  -1. 77  -1. 77  32. 34  26. 04  197. 0  0. 108  1438. 0
  50. 0  -1. 78  -1. 78  32. 51  26. 18  184. 2  0. 118  1438. 2
  55. 0  -1. 78  -1. 78  32. 60  26. 25  177. 1  0. 127  1438. 4
  60. 0  -1. 77  -1. 77  32. 69  26. 32  170. 6  0. 136  1438. 7
  65. 0  -1. 79  -1. 79  32. 73  26. 36  166. 6  0. 144  1438. 8
  70. 0  -1. 77  -1. 77  32. 77  26. 39  163. 7  0. 153  1439. 0
  80. 0  -1. 65  -1. 65  32. 93  26. 52  151. 4  0. 168  1440. 0
  90. 0  -1. 60  -1. 60  33. 27  26. 79  125. 7  0. 182  1440. 8
 100. 0  -1. 56  -1. 56  33. 57  27. 03  103. 2  0. 194  1441. 6
 110. 0  -1. 52  -1. 52  33. 83  27. 24   83. 2  0. 203  1442. 3
 120. 0  -1. 51  -1. 51  34. 02  27. 40   68. 5  0. 211  1442. 8
 130. 0  -1. 44  -1. 45  34. 16  27. 51   58. 0  0. 217  1443. 5
 140. 0  -1. 34  -1. 34  34. 25  27. 58   50. 9  0. 223  1444. 3
 150. 0  -1. 21  -1. 22  34. 33  27. 64   45. 8  0. 228  1445. 1
 160. 0  -1. 08  -1. 09  34. 39  27. 68   41. 6  0. 232  1446. 0
 170. 0  -0. 96  -0. 96  34. 44  27. 72   38. 0  0. 236  1446. 8
 180. 0  -0. 81  -0. 82  34. 49  27. 75   35. 0  0. 240  1447. 7
 190. 0  -0. 65  -0. 65  34. 54  27. 79   31. 4  0. 243  1448. 7
 200. 0  -0. 50  -0. 50  34. 59  27. 82   28. 7  0. 246  1449. 6
 210. 0  -0. 34  -0. 35  34. 63  27. 85   26. 2  0. 249  1450. 6
 220. 0  -0. 22  -0. 23  34. 66  27. 87   24. 3  0. 252  1451. 3
 230. 0  -0. 10  -0. 11  34. 70  27. 89   22. 6  0. 254  1452. 1
 240. 0   0. 02   0. 02  34. 73  27. 91   20. 3  0. 256  1452. 9
 250. 0   0. 17   0. 16  34. 77  27. 93   18. 2  0. 258  1453. 8
 260. 0   0. 30   0. 29  34. 81  27. 95   16. 4  0. 260  1454. 6
 270. 0   0. 32   0. 30  34. 81  27. 96   16. 2  0. 261  1454. 8
 280. 0   0. 32   0. 31  34. 81  27. 96   16. 4  0. 263  1455. 0
 290. 0   0. 43   0. 41  34. 84  27. 98   14. 5  0. 265  1455. 7
 300. 0   0. 51   0. 50  34. 86  27. 99   13. 5  0. 266  1456. 3
 310. 0   0. 55   0. 53  34. 87  27. 99   13. 5  0. 267  1456. 6
 320. 0   0. 57   0. 56  34. 87  27. 99   13. 4  0. 269  1456. 9
 330. 0   0. 57   0. 56  34. 87  27. 99   13. 4  0. 270  1457. 1
 340. 0   0. 58   0. 57  34. 87  27. 99   13. 2  0. 272  1457. 3
 350. 0   0. 62   0. 60  34. 88  28. 00   12. 9  0. 273  1457. 6
 370. 0   0. 68   0. 66  34. 90  28. 00   12. 3  0. 275  1458. 3
 390. 0   0. 70   0. 68  34. 90  28. 01   11. 8  0. 278  1458. 7
 410. 0   0. 67   0. 66  34. 90  28. 01   11. 7  0. 280  1458. 9
 430. 0   0. 62   0. 60  34. 91  28. 02   11. 0  0. 282  1459. 0
 450. 0   0. 58   0. 56  34. 91  28. 02   10. 9  0. 285  1459. 1
 470. 0   0. 55   0. 53  34. 91  28. 02   10. 4  0. 287  1459. 4
 490. 0   0. 51   0. 49  34. 91  28. 03   10. 0  0. 289  1459. 5
 510. 0   0. 44   0. 42  34. 91  28. 03    9. 4  0. 291  1459. 5
 530. 0   0. 40   0. 38  34. 91  28. 03    9. 5  0. 293  1459. 7
 550. 0   0. 34   0. 32  34. 91  28. 04    8. 9  0. 295  1459. 7
 570. 0   0. 29   0. 26  34. 91  28. 04    8. 6  0. 296  1459. 8
 590. 0   0. 26   0. 23  34. 91  28. 04    8. 3  0. 298  1460. 0
 610. 0   0. 22   0. 20  34. 92  28. 05    7. 9  0. 300  1460. 2
 630. 0   0. 19   0. 16  34. 92  28. 05    7. 5  0. 301  1460. 4
 650. 0   0. 15   0. 13  34. 92  28. 05    7. 2  0. 303  1460. 6
 670. 0   0. 11   0. 08  34. 92  28. 05    7. 1  0. 304  1460. 7
 690. 0   0. 07   0. 04  34. 92  28. 06    6. 6  0. 306  1460. 9

                         DEPTH       TEMP.       SALIN

     BOT NUM = 1           3. 2     -1. 74       31. 65
     BOT NUM = 2          25. 9     -1. 75       31. 65
     BOT NUM = 3         384. 5      0. 73       34. 89
     BOT NUM = 4         700. 2      0. 06       34. 90
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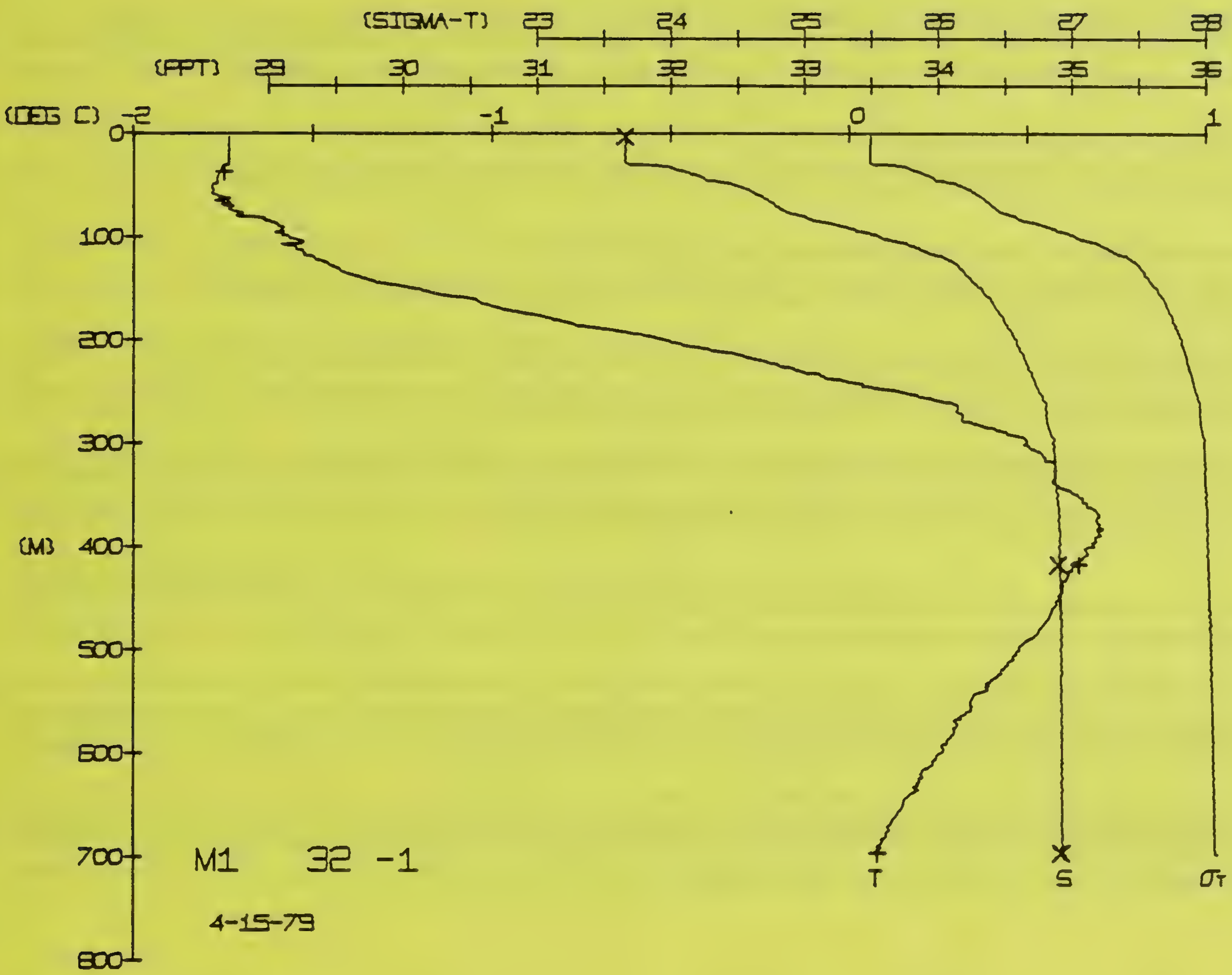
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M1 32 -1
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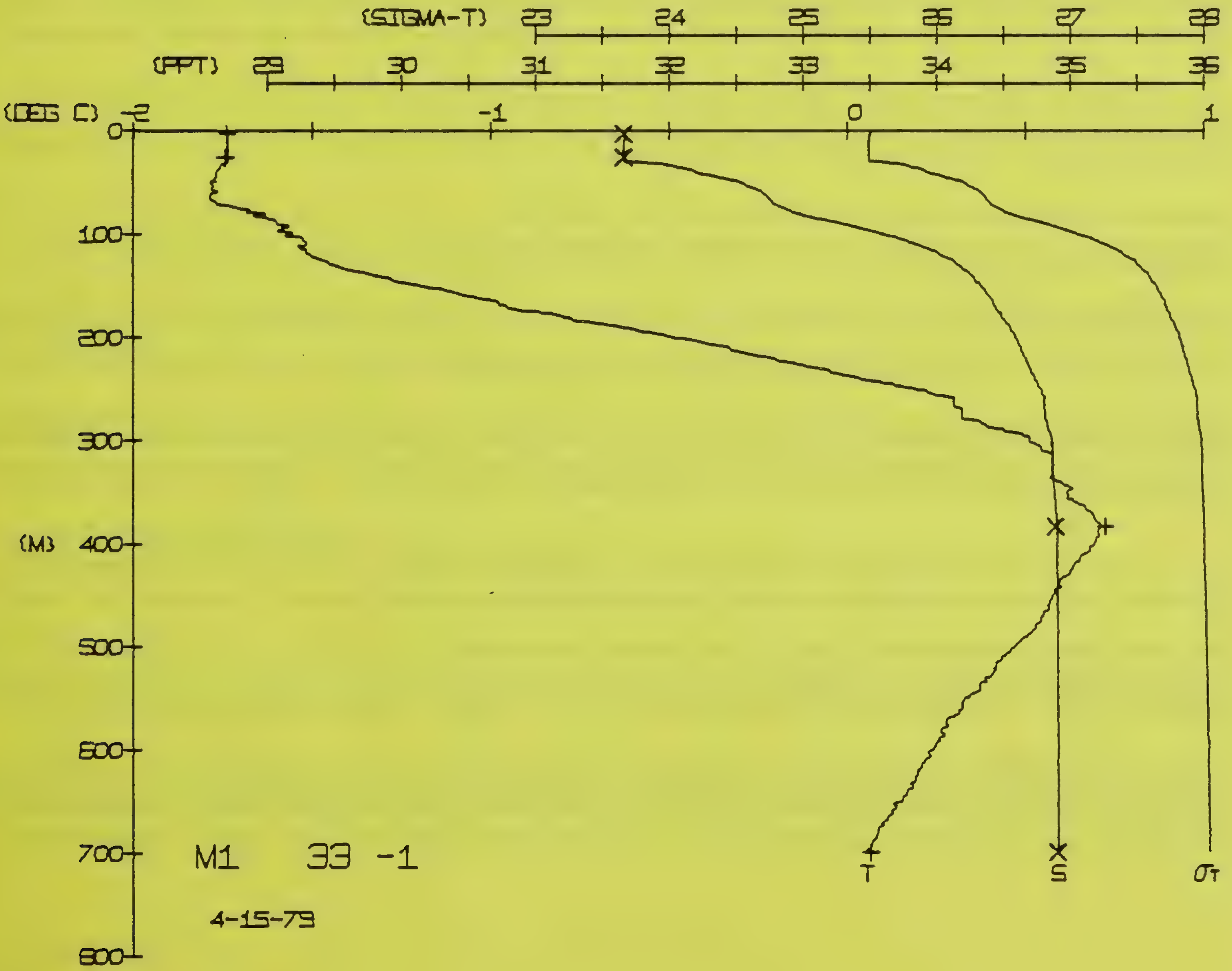
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T
S
σT
M1 33 -1
4-15-79

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 FRAM 1  STATION  34(1) CTD  16/APR/1979  706 GMT  CODE = 1
LAT = 84.5178N LNG =   9.2486W LTER =      1. LGER =      2.
AIR TEMP = -30.8 BAROM = 1040.3 WIND =  98.0 SPEED =    2.8

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   31.67   25.50   249.1   0.000   1436.4
   3.0   -1.74   -1.74   31.67   25.50   249.1   0.008   1436.5
   5.0   -1.74   -1.74   31.66   25.49   249.6   0.013   1436.5
  10.0   -1.74   -1.74   31.66   25.49   249.5   0.025   1436.6
  15.0   -1.74   -1.74   31.66   25.49   249.6   0.038   1436.7
  20.0   -1.74   -1.74   31.66   25.49   249.8   0.050   1436.8
  25.0   -1.73   -1.73   31.65   25.49   250.1   0.063   1436.8
  30.0   -1.74   -1.74   31.80   25.60   239.2   0.075   1437.1
  35.0   -1.76   -1.76   32.03   25.79   220.7   0.087   1437.4
  40.0   -1.76   -1.76   32.19   25.92   209.0   0.098   1437.7
  45.0   -1.78   -1.78   32.42   26.11   190.9   0.108   1438.0
  50.0   -1.78   -1.78   32.55   26.22   180.7   0.117   1438.3
  55.0   -1.78   -1.78   32.64   26.29   173.6   0.126   1438.5
  60.0   -1.79   -1.79   32.70   26.34   169.2   0.135   1438.6
  65.0   -1.79   -1.79   32.75   26.37   165.7   0.143   1438.8
  70.0   -1.78   -1.78   32.78   26.40   162.9   0.151   1438.9
  80.0   -1.68   -1.69   32.94   26.53   151.0   0.167   1439.8
  90.0   -1.63   -1.63   33.24   26.77   127.7   0.181   1440.6
 100.0   -1.56   -1.56   33.57   27.03   102.8   0.193   1441.6
 110.0   -1.52   -1.52   33.83   27.25    82.7   0.202   1442.3
 120.0   -1.51   -1.51   34.02   27.40    68.1   0.210   1442.8
 130.0   -1.43   -1.44   34.17   27.51    57.4   0.216   1443.5
 140.0   -1.35   -1.36   34.24   27.57    52.0   0.222   1444.2
 150.0   -1.21   -1.21   34.32   27.63    46.2   0.227   1445.1
 160.0   -1.05   -1.06   34.39   27.68    41.3   0.231   1446.1
 170.0   -0.94   -0.95   34.44   27.72    38.3   0.235   1446.9
 180.0   -0.77   -0.77   34.50   27.76    34.6   0.239   1447.9
 190.0   -0.66   -0.67   34.53   27.78    32.3   0.242   1448.7
 200.0   -0.51   -0.52   34.58   27.82    28.9   0.245   1449.6
 210.0   -0.36   -0.37   34.63   27.85    26.2   0.248   1450.5
 220.0   -0.23   -0.24   34.65   27.86    24.9   0.250   1451.3
 230.0   -0.11   -0.12   34.69   27.88    23.1   0.253   1452.0
 240.0   -0.02   -0.03   34.72   27.90    21.3   0.255   1452.7
 250.0    0.11    0.10   34.75   27.92    19.5   0.257   1453.5
 260.0    0.24    0.23   34.79   27.95    17.2   0.259   1454.3
 270.0    0.30    0.29   34.80   27.95    16.6   0.261   1454.8
 280.0    0.32    0.31   34.81   27.95    16.7   0.262   1455.0
 290.0    0.42    0.41   34.83   27.97    15.1   0.264   1455.7
 300.0    0.49    0.48   34.86   27.99    13.7   0.266   1456.2
 310.0    0.51    0.49   34.86   27.98    14.1   0.267   1456.4
 320.0    0.55    0.53   34.87   27.99    13.3   0.268   1456.8
 330.0    0.58    0.56   34.87   27.99    13.6   0.270   1457.1
 340.0    0.57    0.56   34.87   27.99    13.3   0.271   1457.2
 350.0    0.61    0.59   34.88   28.00    12.6   0.272   1457.6
 370.0    0.65.   0.64   34.89   28.00    12.6   0.275   1458.1
 390.0    0.68    0.66   34.90   28.00    12.2   0.277   1458.6
 410.0    0.63    0.61   34.90   28.01    11.6   0.280   1458.7
 430.0    0.62    0.60   34.90   28.01    11.3   0.282   1459.0
 450.0    0.60    0.58   34.91   28.02    11.0   0.284   1459.2
 470.0    0.56    0.53   34.91   28.03    10.2   0.286   1459.4
 490.0    0.50    0.48   34.91   28.03     9.9   0.289   1459.5
 510.0    0.46    0.43   34.91   28.03     9.6   0.290   1459.6
 530.0    0.41    0.38   34.92   28.04     8.9   0.292   1459.7
 550.0    0.35    0.33   34.92   28.04     8.4   0.294   1459.8
 570.0    0.32    0.30   34.92   28.04     8.4   0.296   1460.0
 590.0    0.26    0.23   34.91   28.04     8.4   0.297   1460.0
 610.0    0.22    0.19   34.92   28.05     7.6   0.299   1460.2
 630.0    0.19    0.16   34.91   28.05     7.8   0.301   1460.4
 650.0    0.15    0.12   34.91   28.05     7.7   0.302   1460.5
 670.0    0.11    0.08   34.91   28.05     7.3   0.304   1460.7
 690.0    0.08    0.05   34.92   28.05     6.8   0.305   1460.9
 701.7    0.06    0.03   34.92   28.06     6.7   0.306   1461.0

                         DEPTH       TEMP.       SALIN

        BOT NUM = 1        3.4                   31.65
        BOT NUM = 2       27.7       -1.72       31.65
        BOT NUM = 3      388.3        0.69       34.88
        BOT NUM = 4      703.1        0.06       34.90
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LAT = 84.5201N LNG =   9.3347W LTER =      0. LGER =      0.
AIR TEMP = -31.7 BAROM = 1036.8 WIND =  80.0 SPEED =    3.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.67   25.50   249.3   0.000   1436.4
   3.0   -1.73   -1.73   31.67   25.50   249.3   0.008   1436.5
   5.0   -1.73   -1.73   31.67   25.50   249.2   0.013   1436.5
  10.0   -1.73   -1.73   31.67   25.50   249.4   0.025   1436.6
  15.0   -1.74   -1.74   31.67   25.50   249.2   0.038   1436.7
  20.0   -1.73   -1.73   31.67   25.50   248.9   0.050   1436.8
  25.0   -1.73   -1.73   31.67   25.50   248.6   0.063   1436.9
  30.0   -1.74   -1.74   31.74   25.56   243.2   0.075   1437.0
  35.0   -1.75   -1.75   31.99   25.76   224.0   0.087   1437.4
  40.0   -1.76   -1.76   32.20   25.93   209.0   0.098   1437.7
  45.0   -1.77   -1.78   32.44   26.12   187.8   0.108   1438.1
  50.0   -1.77   -1.77   32.54   26.21   181.5   0.117   1438.3
  55.0   -1.78   -1.78   32.64   26.29   174.0   0.126   1438.5
  60.0   -1.78   -1.78   32.72   26.35   169.0   0.135   1438.7
  65.0   -1.79   -1.79   32.75   26.38   165.3   0.143   1438.8
  70.0   -1.77   -1.78   32.79   26.41   162.5   0.151   1439.0
  80.0   -1.73   -1.73   32.91   26.50   153.4   0.167   1439.5
  90.0   -1.60   -1.60   33.20   26.73   131.4   0.182   1440.7
 100.0   -1.55   -1.56   33.56   27.03   103.4   0.193   1441.6
 110.0   -1.52   -1.52   33.82   27.23    84.0   0.203   1442.3
 120.0   -1.51   -1.51   34.01   27.38    69.5   0.211   1442.8
 130.0   -1.45   -1.45   34.14   27.49    59.1   0.217   1443.4
 140.0   -1.33   -1.33   34.26   27.58    50.8   0.223   1444.3
 150.0   -1.18   -1.18   34.33   27.64    45.6   0.228   1445.3
 160.0   -1.04   -1.05   34.40   27.69    41.1   0.232   1446.2
 170.0   -0.93   -0.93   34.45   27.72    37.8   0.236   1447.0
 180.0   -0.79   -0.79   34.50   27.76    34.0   0.240   1447.8
 190.0   -0.65   -0.65   34.54   27.79    31.8   0.243   1448.7
 200.0   -0.51   -0.51   34.59   27.82    28.8   0.246   1449.6
 210.0   -0.39   -0.40   34.61   27.84    27.2   0.249   1450.3
 220.0   -0.25   -0.26   34.66   27.86    24.7   0.251   1451.2
 230.0   -0.13   -0.14   34.69   27.88    22.8   0.254   1452.0
 240.0    0.00   -0.01   34.72   27.90    21.3   0.256   1452.8
 250.0    0.14    0.13   34.76   27.92    19.1   0.258   1453.6
 260.0    0.25    0.24   34.79   27.94    17.5   0.260   1454.4
 270.0    0.30    0.29   34.80   27.95    16.9   0.262   1454.7
 280.0    0.33    0.32   34.81   27.95    16.6   0.263   1455.1
 290.0    0.43    0.41   34.84   27.97    15.0   0.265   1455.7
 300.0    0.50    0.48   34.86   27.98    13.9   0.266   1456.2
 310.0    0.51    0.50   34.86   27.98    14.0   0.268   1456.5
 320.0    0.55    0.54   34.87   27.99    13.5   0.269   1456.8
 330.0    0.57    0.55   34.87   27.99    13.5   0.270   1457.0
 340.0    0.59    0.57   34.88   27.99    13.0   0.272   1457.3
 350.0    0.62    0.60   34.88   28.00    12.8   0.273   1457.6
 370.0    0.65    0.64   34.90   28.01    12.0   0.276   1458.1
 390.0    0.68    0.67   34.90   28.01    11.7   0.278   1458.6
 410.0    0.62    0.60   34.90   28.01    11.8   0.280   1458.6
 430.0    0.60    0.58   34.90   28.01    11.4   0.283   1458.9
 450.0    0.60    0.58   34.91   28.02    10.7   0.285   1459.2
 470.0    0.56    0.53   34.91   28.03    10.2   0.287   1459.4
 490.0    0.51    0.49   34.91   28.03    10.0   0.289   1459.5
 510.0    0.44    0.42   34.91   28.03     9.5   0.291   1459.5
 530.0    0.40    0.38   34.91   28.03     9.2   0.293   1459.7
 550.0    0.34    0.32   34.91   28.04     9.1   0.295   1459.7
 570.0    0.31    0.29   34.91   28.04     8.7   0.297   1459.9
 590.0    0.27    0.25   34.92   28.04     8.1   0.298   1460.1
 610.0    0.21    0.18   34.91   28.05     7.9   0.300   1460.2
 630.0    0.17    0.14   34.91   28.05     7.8   0.302   1460.3
 650.0    0.15    0.12   34.91   28.05     7.5   0.303   1460.5
 670.0    0.11    0.08   34.92   28.05     7.1   0.305   1460.7
 690.0    0.08    0.05   34.92   28.05     6.9   0.306   1460.9

                         DEPTH       TEMP.       SALIN

        BOT NUM = 1        3.7                   31.66
        BOT NUM = 2       25.9       -1.70
        BOT NUM = 3      387.3        0.69       34.89
        BOT NUM = 4      699.4        0.07       34.90
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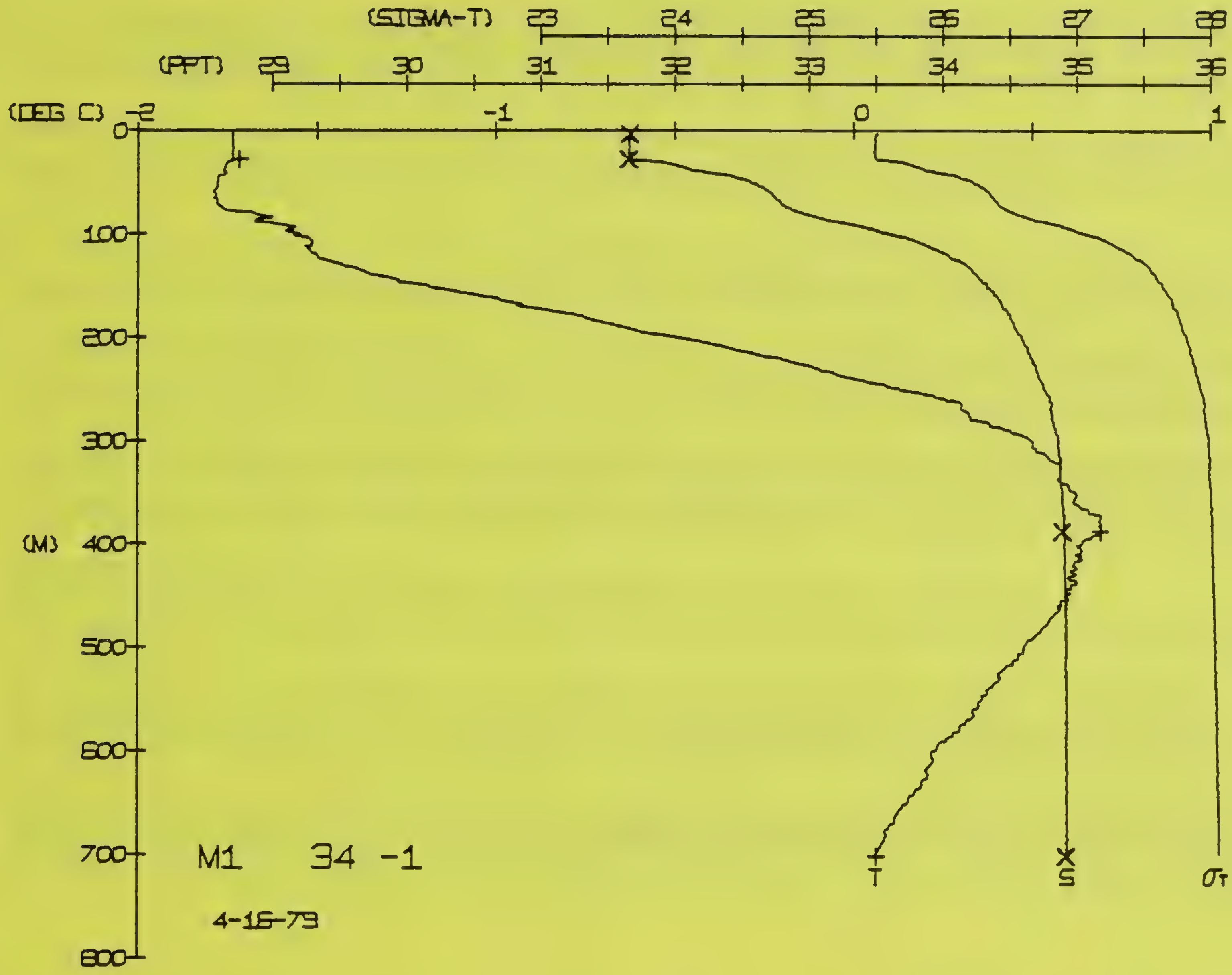
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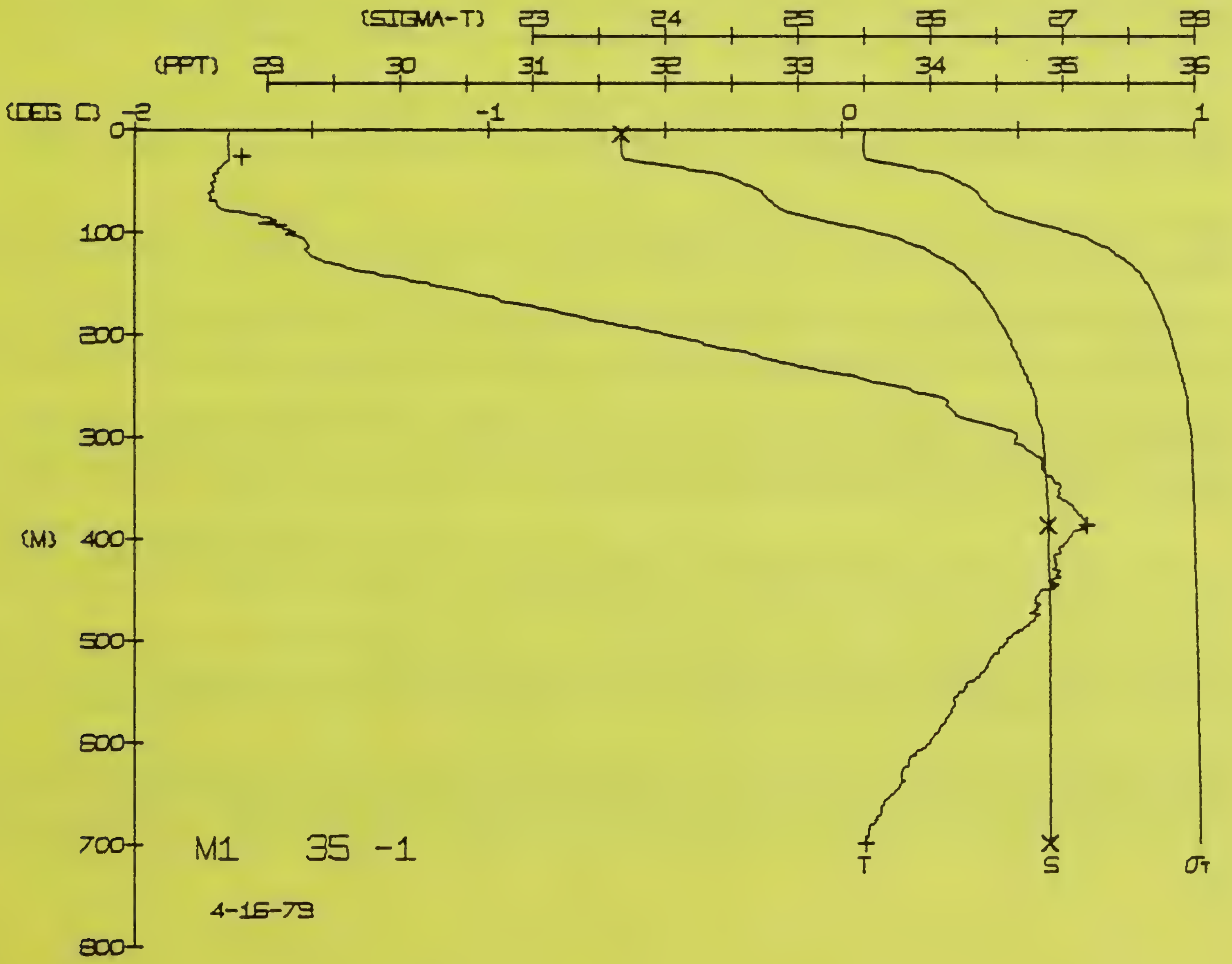
T
S
σT
M1 34 -1
4-16-79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(PPT) 29 30 31 32 33 34 35 36
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T
S
σT
M1 35 -1
4-16-79

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 FRAM 1  STATION  36(1) CTD  17/APR/1979  709 GMT  CODE = 1
LAT = 84.5254N LNG =   9.5358W LTER =     1.  LGER =      2.
AIR TEMP = -31.7 BAROM = 1030.6 WIND =  80.0 SPEED =    3.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   31.68   25.51   248.3   0.000   1436.5
   3.1   -1.74   -1.74   31.68   25.51   248.2   0.008   1436.5
   5.0   -1.74   -1.74   31.67   25.50   248.9   0.013   1436.5
  10.0   -1.74   -1.74   31.68   25.51   248.2   0.025   1436.6
  15.0   -1.73   -1.73   31.69   25.51   247.6   0.037   1436.7
  20.0   -1.73   -1.73   31.71   25.53   245.9   0.050   1436.8
  25.0   -1.74   -1.74   31.76   25.57   242.3   0.062   1437.0
  30.0   -1.74   -1.74   31.83   25.63   236.6   0.074   1437.1
  35.0   -1.76   -1.76   32.07   25.82   218.3   0.086   1437.5
  40.0   -1.76   -1.77   32.24   25.96   205.1   0.096   1437.8
  45.0   -1.77   -1.77   32.41   26.10   191.7   0.106   1438.1
  50.0   -1.78   -1.78   32.52   26.19   182.9   0.116   1438.3
  55.0   -1.78   -1.78   32.63   26.27   175.0   0.125   1438.5
  60.0   -1.79   -1.79   32.70   26.33   169.3   0.134   1438.6
  65.0   -1.78   -1.78   32.75   26.37   165.6   0.142   1438.8
  70.0   -1.77   -1.77   32.78   26.40   163.0   0.150   1439.0
  80.0   -1.74   -1.74   32.92   26.51   152.3   0.166   1439.5
  90.0   -1.59   -1.60   33.21   26.75   130.1   0.180   1440.8
 100.0   -1.55   -1.55   33.57   27.03   102.8   0.192   1441.7
 110.0   -1.51   -1.51   33.86   27.27    80.7   0.201   1442.4
 120.0   -1.49   -1.50   34.03   27.40    67.6   0.209   1442.9
 130.0   -1.44   -1.44   34.17   27.51    57.3   0.215   1443.5
 140.0   -1.31   -1.31   34.25   27.58    51.0   0.221   1444.4
 150.0   -1.19   -1.19   34.33   27.64    45.5   0.225   1445.2
 160.0   -1.04   -1.04   34.40   27.69    41.2   0.230   1446.2
 170.0   -0.94   -0.94   34.44   27.72    38.0   0.234   1446.9
 180.0   -0.80   -0.81   34.49   27.75    34.9   0.238   1447.8
 190.0   -0.65   -0.66   34.54   27.78    31.9   0.241   1448.7
 200.0   -0.52   -0.53   34.57   27.81    29.6   0.244   1449.5
 210.0   -0.38   -0.39   34.61   27.83    27.4   0.247   1450.4
 220.0   -0.24   -0.25   34.66   27.86    24.7   0.249   1451.3
 230.0   -0.13   -0.14   34.69   27.88    22.7   0.252   1452.0
 240.0    0.00   -0.01   34.72   27.90    21.0   0.254   1452.8
 250.0    0.13    0.12   34.76   27.92    19.2   0.256   1453.6
 260.0    0.26    0.25   34.80   27.95    16.8   0.258   1454.4
 270.0    0.30    0.29   34.80   27.95    17.0   0.260   1454.8
 280.0    0.36    0.35   34.82   27.96    15.6   0.261   1455.2
 290.0    0.45    0.44   34.85   27.98    14.3   0.263   1455.8
 300.0    0.50    0.48   34.86   27.98    13.9   0.264   1456.2
 310.0    0.51    0.50   34.86   27.99    13.6   0.266   1456.5
 320.0    0.55    0.53   34.86   27.99    13.6   0.267   1456.8
 330.0    0.57    0.55   34.87   27.99    13.3   0.268   1457.1
 340.0    0.59    0.58   34.87   27.99    13.5   0.270   1457.3
 350.0    0.61    0.59   34.89   28.00    12.3   0.271   1457.6
 370.0    0.63    0.61   34.89   28.00    12.4   0.273   1458.0
 390.0    0.68    0.66   34.90   28.01    11.9   0.276   1458.6
 410.0    0.63    0.61   34.90   28.01    11.8   0.278   1458.7
 430.0    0.59    0.57   34.90   28.01    11.6   0.281   1458.9
 450.0    0.59    0.57   34.91   28.02    10.7   0.283   1459.2
 470.0    0.55    0.52   34.91   28.03    10.1   0.285   1459.3
 490.0    0.49    0.47   34.91   28.03    10.1   0.287   1459.4
 510.0    0.44    0.42   34.91   28.03     9.6   0.289   1459.5
 530.0    0.40    0.38   34.91   28.03     9.5   0.291   1459.7
 550.0    0.34    0.32   34.91   28.04     8.9   0.293   1459.8
 570.0    0.29    0.27   34.91   28.04     8.8   0.295   1459.9
 590.0    0.27    0.25   34.92   28.05     7.8   0.296   1460.1
 610.0    0.24    0.21   34.92   28.05     7.8   0.298   1460.3
 630.0    0.18    0.15   34.91   28.05     7.7   0.299   1460.3
 650.0    0.14    0.11   34.91   28.05     7.4   0.301   1460.5
 670.0    0.11    0.09   34.92   28.05     7.0   0.302   1460.7
 690.0    0.08    0.05   34.92   28.06     6.7   0.304   1460.9

                         DEPTH       TEMP.        SALIN

       BOT NUM = 1         3.2                    31.68
       BOT NUM = 2        24.6      -1.73         31.73
       BOT NUM = 3       389.6       0.69         34.89
       BOT NUM = 4       709.2       0.06         34.90
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```
 FRAM 1  STATION  37(1) CTD  17/APR/1979 1837 GMT  CODE = 1
LAT = 84.5183N LNG =   9.6351W LTER =     2.  LGER =      5.
AIR TEMP = -26.9 BAROM = 1022.8 WIND = 336.0 SPEED =    2.9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   31.67   25.50   249.2   0.000   1436.4
   3.1   -1.74   -1.74   31.67   25.50   249.2   0.008   1436.5
   5.0   -1.74   -1.74   31.67   25.50   249.0   0.013   1436.5
  10.0   -1.73   -1.74   31.67   25.50   249.3   0.025   1436.6
  15.0   -1.74   -1.74   31.66   25.50   249.4   0.038   1436.7
  20.0   -1.74   -1.74   31.66   25.49   249.4   0.050   1436.8
  25.0   -1.73   -1.73   31.67   25.50   248.7   0.063   1436.9
  30.0   -1.74   -1.74   31.82   25.62   237.5   0.075   1437.1
  35.0   -1.75   -1.76   32.02   25.78   222.1   0.087   1437.4
  40.0   -1.76   -1.76   32.17   25.91   210.1   0.097   1437.7
  45.0   -1.77   -1.77   32.40   26.09   192.4   0.108   1438.0
  50.0   -1.77   -1.77   32.54   26.20   182.0   0.117   1438.3
  55.0   -1.77   -1.77   32.63   26.27   175.2   0.126   1438.5
  60.0   -1.77   -1.77   32.71   26.34   168.9   0.135   1438.7
  65.0   -1.78   -1.78   32.74   26.37   165.9   0.143   1438.8
  70.0   -1.75   -1.75   32.79   26.41   162.1   0.151   1439.1
  80.0   -1.75   -1.75   32.89   26.48   155.2   0.167   1439.4
  90.0   -1.60   -1.60   33.21   26.74   130.6   0.182   1440.7
 100.0   -1.57   -1.57   33.53   27.00   105.9   0.194   1441.5
 110.0   -1.52   -1.52   33.83   27.24    82.8   0.203   1442.3
 120.0   -1.50   -1.50   34.00   27.38    69.9   0.211   1442.8
 130.0   -1.45   -1.45   34.14   27.49    59.1   0.217   1443.4
 140.0   -1.31   -1.32   34.25   27.57    51.6   0.223   1444.4
 150.0   -1.20   -1.20   34.32   27.63    46.0   0.228   1445.2
 160.0   -1.07   -1.07   34.38   27.67    42.2   0.232   1446.0
 170.0   -0.94   -0.94   34.44   27.72    38.3   0.236   1446.9
 180.0   -0.79   -0.79   34.49   27.75    34.9   0.240   1447.8
 190.0   -0.65   -0.66   34.53   27.78    32.1   0.244   1448.7
 200.0   -0.53   -0.54   34.57   27.81    29.6   0.247   1449.5
 210.0   -0.40   -0.40   34.61   27.83    27.3   0.250   1450.3
 220.0   -0.26   -0.27   34.65   27.86    25.2   0.252   1451.1
 230.0   -0.12   -0.13   34.69   27.88    23.0   0.255   1452.0
 240.0    0.04    0.03   34.73   27.90    21.0   0.257   1453.0
 250.0    0.15    0.14   34.76   27.93    19.0   0.259   1453.7
 260.0    0.28    0.27   34.79   27.94    17.4   0.261   1454.5
 270.0    0.31    0.30   34.80   27.95    16.7   0.262   1454.8
 280.0    0.37    0.36   34.82   27.96    15.8   0.264   1455.3
 290.0    0.44    0.43   34.84   27.97    15.0   0.266   1455.8
 300.0    0.50    0.48   34.85   27.98    14.1   0.267   1456.2
 310.0    0.51    0.50   34.86   27.98    13.8   0.268   1456.5
 320.0    0.55    0.53   34.87   27.99    13.6   0.270   1456.8
 330.0    0.57    0.55   34.87   27.99    13.6   0.271   1457.1
 340.0    0.58    0.56   34.87   27.99    13.3   0.273   1457.3
 350.0    0.62    0.60   34.88   28.00    12.7   0.274   1457.6
 370.0    0.64    0.62   34.89   28.00    12.2   0.276   1458.1
 390.0    0.68    0.67   34.90   28.00    12.2   0.279   1458.6
 410.0    0.62    0.60   34.90   28.01    11.9   0.281   1458.7
 430.0    0.62    0.61   34.91   28.01    11.3   0.284   1459.0
 450.0    0.57    0.55   34.90   28.02    10.9   0.286   1459.1
 470.0    0.57    0.55   34.91   28.02    10.8   0.288   1459.5
 490.0    0.49    0.47   34.91   28.03     9.9   0.290   1459.4
 510.0    0.45    0.43   34.91   28.03     9.8   0.292   1459.6
 530.0    0.40    0.38   34.91   28.03     9.4   0.294   1459.7
 550.0    0.34    0.31   34.91   28.04     8.8   0.296   1459.7
 570.0    0.30    0.27   34.92   28.04     8.4   0.298   1459.9
 590.0    0.28    0.25   34.91   28.04     8.5   0.299   1460.1
 610.0    0.23    0.21   34.91   28.05     8.0   0.301   1460.3
 630.0    0.18    0.16   34.92   28.05     7.4   0.303   1460.4
 650.0    0.15    0.12   34.92   28.05     7.4   0.304   1460.5
 670.0    0.11    0.08   34.92   28.06     6.7   0.306   1460.7
 690.0    0.08    0.05   34.91   28.05     7.3   0.307   1460.9
 699.5    0.07    0.04   34.92   28.06     6.6   0.308   1461.0

                         DEPTH       TEMP.        SALIN

       BOT NUM = 1         3.7      -1.75
       BOT NUM = 2        29.1      -1.74         31.79
       BOT NUM = 3       385.7       0.69         34.88
       BOT NUM = 4       700.1       0.08         34.90
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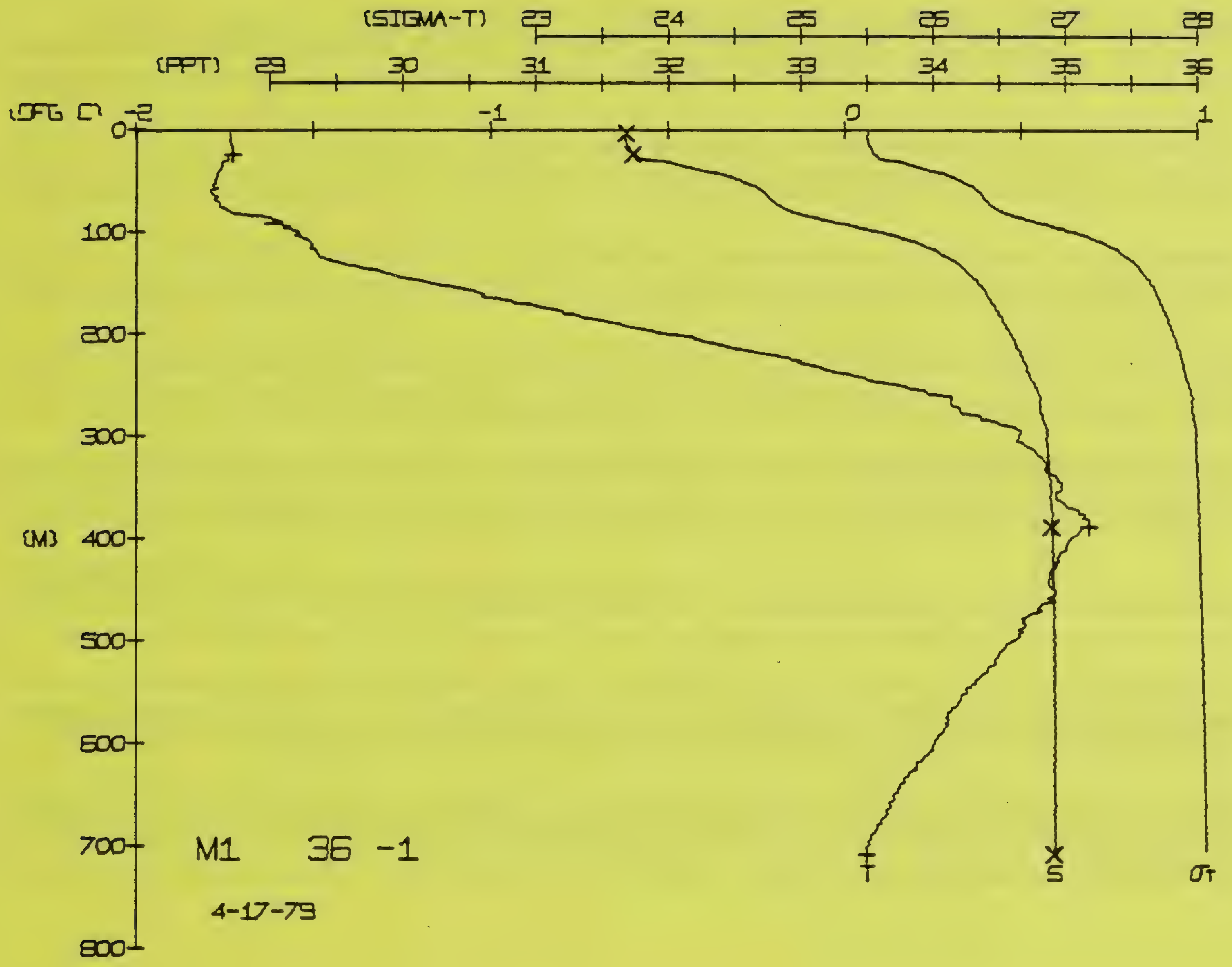
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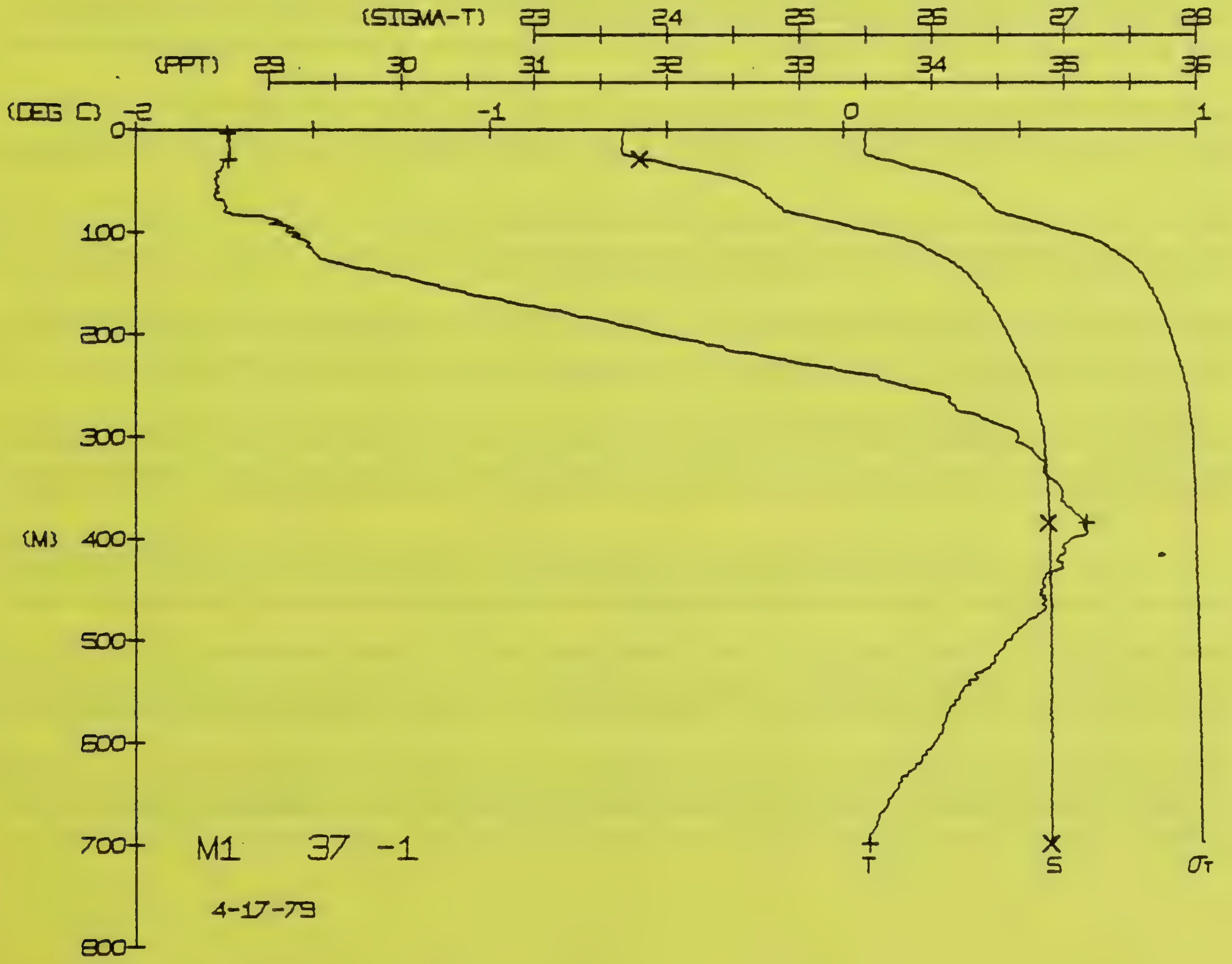
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200
300
(M) 400
500
600
700
800
M1 37 -1
4-17-79
T
S
σT

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  FRAM 1  STATION  38(1) CTD  18/APR/1979  716 GMT  CODE = 1
 LAT = 84. 5066N LNG =    9. 6018W LTER =       1.  LGER =       2.
 AIR TEMP = -26. 9 BAROM = 1017. 1 WIND = 336. 0 SPEED =    2. 9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 73  -1. 73  31. 67  25. 50  249. 4  0. 000  1436. 4
   3. 0  -1. 73  -1. 74  31. 67  25. 50  249. 4  0. 008  1436. 5
   5. 0  -1. 73  -1. 73  31. 66  25. 49  249. 9  0. 013  1436. 5
  10. 0  -1. 73  -1. 73  31. 66  25. 49  250. 0  0. 025  1436. 6
  15. 0  -1. 73  -1. 73  31. 65  25. 49  250. 2  0. 038  1436. 7
  20. 0  -1. 73  -1. 73  31. 65  25. 48  250. 4  0. 050  1436. 7
  25. 0  -1. 73  -1. 73  31. 66  25. 49  249. 5  0. 063  1436. 8
  30. 0  -1. 74  -1. 74  31. 71  25. 53  245. 6  0. 075  1437. 0
  35. 0  -1. 75  -1. 75  32. 01  25. 77  223. 0  0. 087  1437. 4
  40. 0  -1. 76  -1. 76  32. 25  25. 97  204. 4  0. 098  1437. 8
  45. 0  -1. 77  -1. 77  32. 44  26. 13  189. 2  0. 108  1438. 1
  50. 0  -1. 77  -1. 77  32. 54  26. 21  181. 4  0. 117  1438. 3
  55. 0  -1. 77  -1. 77  32. 62  26. 27  175. 2  0. 126  1438. 5
  60. 0  -1. 76  -1. 76  32. 70  26. 33  169. 5  0. 135  1438. 7
  65. 0  -1. 76  -1. 76  32. 74  26. 37  166. 2  0. 143  1438. 9
  70. 0  -1. 76  -1. 76  32. 78  26. 40  163. 4  0. 152  1439. 0
  80. 0  -1. 75  -1. 75  32. 89  26. 49  154. 4  0. 168  1439. 4
  90. 0  -1. 60  -1. 61  33. 18  26. 72  132. 4  0. 182  1440. 7
 100. 0  -1. 57  -1. 58  33. 51  26. 99  107. 4  0. 194  1441. 4
 110. 0  -1. 52  -1. 52  33. 82  27. 23   84. 0  0. 204  1442. 3
 120. 0  -1. 51  -1. 51  34. 01  27. 39   69. 3  0. 212  1442. 8
 130. 0  -1. 44  -1. 45  34. 14  27. 49   59. 2  0. 218  1443. 4
 140. 0  -1. 34  -1. 34  34. 24  27. 57   51. 7  0. 224  1444. 2
 150. 0  -1. 20  -1. 20  34. 32  27. 63   46. 1  0. 229  1445. 2
 160. 0  -1. 09  -1. 09  34. 38  27. 67   42. 5  0. 233  1445. 9
 170. 0  -0. 97  -0. 97  34. 43  27. 71   38. 4  0. 237  1446. 8
 180. 0  -0. 82  -0. 82  34. 48  27. 75   35. 5  0. 241  1447. 7
 190. 0  -0. 65  -0. 66  34. 53  27. 78   32. 2  0. 244  1448. 7
 200. 0  -0. 49  -0. 50  34. 58  27. 81   29. 2  0. 247  1449. 7
 210. 0  -0. 39  -0. 40  34. 61  27. 84   27. 2  0. 250  1450. 3
 220. 0  -0. 24  -0. 25  34. 65  27. 85   25. 4  0. 253  1451. 2
 230. 0  -0. 11  -0. 12  34. 69  27. 88   23. 1  0. 255  1452. 1
 240. 0   0. 01   0. 00  34. 72  27. 90   21. 3  0. 258  1452. 8
 250. 0   0. 13   0. 12  34. 75  27. 92   19. 6  0. 260  1453. 6
 260. 0   0. 29   0. 28  34. 79  27. 94   17. 4  0. 262  1454. 5
 270. 0   0. 33   0. 32  34. 81  27. 95   16. 6  0. 263  1454. 9
 280. 0   0. 32   0. 31  34. 81  27. 95   16. 5  0. 265  1455. 0
 290. 0   0. 45   0. 44  34. 84  27. 97   15. 2  0. 267  1455. 8
 300. 0   0. 49   0. 48  34. 85  27. 98   14. 1  0. 268  1456. 2
 310. 0   0. 48   0. 47  34. 86  27. 99   13. 5  0. 269  1456. 3
 320. 0   0. 58   0. 56  34. 87  27. 99   13. 4  0. 271  1456. 9
 330. 0   0. 58   0. 57  34. 87  27. 99   13. 8  0. 272  1457. 1
 340. 0   0. 56   0. 55  34. 87  27. 99   13. 0  0. 273  1457. 2
 350. 0   0. 66   0. 65  34. 89  28. 00   12. 9  0. 275  1457. 8
 370. 0   0. 60   0. 58  34. 88  28. 00   12. 6  0. 277  1457. 9
 390. 0   0. 68   0. 66  34. 90  28. 00   12. 3  0. 280  1458. 6
 410. 0   0. 59   0. 57  34. 89  28. 01   11. 8  0. 282  1458. 5
 430. 0   0. 60   0. 58  34. 90  28. 01   11. 2  0. 285  1458. 9
 450. 0   0. 59   0. 57  34. 91  28. 02   10. 8  0. 287  1459. 2
 470. 0   0. 48   0. 46  34. 91  28. 03    9. 9  0. 289  1459. 0
 490. 0   0. 48   0. 46  34. 91  28. 03   10. 1  0. 291  1459. 4
 510. 0   0. 42   0. 40  34. 90  28. 03   10. 0  0. 293  1459. 4
 530. 0   0. 34   0. 32  34. 90  28. 03    9. 5  0. 295  1459. 4
 550. 0   0. 28   0. 26  34. 90  28. 03    9. 3  0. 297  1459. 5
 570. 0   0. 24   0. 21  34. 91  28. 04    8. 6  0. 299  1459. 6
 590. 0   0. 19   0. 16  34. 90  28. 04    8. 6  0. 300  1459. 7
 610. 0   0. 16   0. 14  34. 91  28. 04    8. 1  0. 302  1459. 9
 630. 0   0. 18   0. 15  34. 91  28. 04    8  0  0. 304  1460. 3
 650. 0   0. 13   0. 10  34. 91  28. 05    7. 5  0. 305  1460. 4
 670. 0   0. 10   0. 07  34. 92  28. 05    7. 1  0. 307  1460. 6
 690. 0   0. 05   0. 02  34. 91  28. 05    7. 3  0. 308  1460. 8
 699. 8   0. 06   0. 03  34. 93  28. 07    5. 5  0. 309  1461. 0

                         DEPTH       TEMP.        SALIN

     BOT NUM = 1           3. 7
     BOT NUM = 2          30. 9      -1. 73
     BOT NUM = 3         425. 0       0. 62       34. 88
     BOT NUM = 4         699. 7       0. 06       34. 90
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  FRAM 1  STATION  39(1) CTD  18/APR/1979 1837 GMT  CODE = 1
 LAT = 84. 4941N LNG =    9. 6111W LTER =       0.  LGER =       1.
 AIR TEMP = -26. 7 BAROM = 1016. 5 WIND = 321. 0 SPEED =    3. 5

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 73  -1. 73  31. 67  25. 50  249. 3  0. 000  1436. 4
   3. 1  -1. 73  -1. 73  31. 67  25. 50  249. 3  0. 008  1436. 5
   5. 0  -1. 73  -1. 73  31. 67  25. 50  249. 0  0. 013  1436. 5
  10. 0  -1. 73  -1. 73  31. 66  25. 49  249. 5  0. 025  1436. 6
  15. 0  -1. 73  -1. 73  31. 66  25. 49  249. 5  0. 038  1436. 7
  20. 0  -1. 74  -1. 74  31. 67  25. 50  249. 4  0. 050  1436. 8
  25. 0  -1. 73  -1. 74  31. 66  25. 49  249. 8  0. 063  1436. 8
  30. 0  -1. 74  -1. 74  31. 69  25. 51  247. 9  0. 075  1436. 9
  35. 0  -1. 76  -1. 76  32. 05  25. 80  219. 9  0. 087  1437. 4
  40. 0  -1. 76  -1. 76  32. 18  25. 91  209. 4  0. 098  1437. 7
  45. 0  -1. 78  -1. 78  32. 43  26. 11  170. 5  0. 108  1438. 1
  50. 0  -1. 78  -1. 78  32. 54  26. 21  181. 5  0. 117  1438. 3
  55. 0  -1. 77  -1. 77  32. 63  26. 28  175. 0  0. 126  1438. 5
  60. 0  -1. 77  -1. 77  32. 71  26. 34  169. 3  0. 135  1438. 7
  65. 0  -1. 78  -1. 78  32. 76  26. 38  165. 0  0. 143  1438. 8
  70. 0  -1. 78  -1. 79  32. 78  26. 40  163. 0  0. 152  1438. 9
  80. 0  -1. 74  -1. 74  32. 89  26. 49  154. 8  0. 168  1439. 5
  90. 0  -1. 60  -1. 60  33. 21  26. 74  130. 2  0. 182  1440. 8
 100. 0  -1. 55  -1. 56  33. 55  27. 02  104. 1  0. 194  1441. 6
 110. 0  -1. 51  -1. 52  33. 85  27. 26   81. 5  0. 203  1442. 4
 120. 0  -1. 50  -1. 50  34. 02  27. 40   68. 5  0. 211  1442. 9
 130. 0  -1. 44  -1. 45  34. 16  27. 50   58. 2  0. 217  1443. 5
 140. 0  -1. 32  -1. 32  34. 26  27. 58   50. 8  0. 223  1444. 4
 150. 0  -1. 21  -1. 21  34. 32  27. 63   46. 6  0. 228  1445. 1
 160. 0  -1. 07  -1. 08  34. 38  27. 67   42. 2  0. 232  1446. 0
 170. 0  -0. 98  -0. 98  34. 43  27. 71   38. 4  0. 236  1446. 7
 180. 0  -0. 84  -0. 84  34. 49  27. 75   35. 1  0. 240  1447. 6
 190. 0  -0. 68  -0. 69  34. 54  27. 78   31. 8  0. 243  1448. 5
 200. 0  -0. 54  -0. 55  34. 57  27. 81   29. 6  0. 246  1449. 4
 210. 0  -0. 40  -0. 40  34. 62  27. 84   27. 1  0. 249  1450. 3
 220. 0  -0. 25  -0. 26  34. 65  27. 86   25. 0  0. 252  1451. 2
 230. 0  -0. 13  -0. 14  34. 69  27. 88   23. 0  0. 254  1452. 0
 240. 0   0. 00  -0. 01  34. 73  27. 91   20. 8  0. 256  1452. 8
 250. 0   0. 14   0. 13  34. 76  27. 93   18. 8  0. 258  1453. 6
 260. 0   0. 24   0. 23  34. 79  27. 94   17. 5  0. 260  1454. 3
 270. 0   0. 33   0. 32  34. 81  27. 95   16. 6  0. 262  1454. 9
 280. 0   0. 33   0. 32  34. 81  27. 96   16. 1  0. 264  1455. 1
 290. 0   0. 41   0. 40  34. 83  27. 97   15. 2  0. 265  1455. 6
 300. 0   0. 49   0. 48  34. 86  27. 99   13. 5  0. 267  1456. 2
 310. 0   0. 54   0. 53  34. 87  27. 99   13. 4  0. 268  1456. 6
 320. 0   0. 57   0. 55  34. 87  27. 99   13. 3  0. 269  1456. 9
 330. 0   0. 57   0. 55  34. 87  27. 99   13. 6  0. 271  1457. 0
 340. 0   0. 61   0. 60  34. 88  27. 99   13. 2  0. 272  1457. 4
 350. 0   0. 64   0. 62  34. 89  28. 00   12. 2  0. 273  1457. 7
 370. 0   0. 66   0. 64  34. 90  28. 01   12. 1  0. 276  1458. 2
 390. 0   0. 71   0. 69  34. 92  28. 02   10. 8  0. 278  1458. 7
 410. 0   0. 62   0. 60  34. 90  28. 01   11. 3  0. 280  1458. 7
 430. 0   0. 63   0. 61  34. 91  28. 02   10. 8  0. 283  1459. 1
 450. 0   0. 59   0. 57  34. 91  28. 02   10. 4  0. 285  1459. 2
 470. 0   0. 55   0. 53  34. 91  28. 03   10. 2  0. 287  1459. 3
 490. 0   0. 51   0. 48  34. 92  28. 04    9. 2  0. 289  1459. 5
 510. 0   0. 43   0. 41  34. 92  28. 04    9. 0  0. 291  1459. 5
 530. 0   0. 38   0. 35  34. 92  28. 04    8. 8  0. 292  1459. 6
 550. 0   0. 35   0. 33  34. 92  28. 05    8. 1  0. 294  1459. 8
 570. 0   0. 31   0. 29  34. 92  28. 05    8. 0  0. 296  1460. 0
 590. 0   0. 27   0. 24  34. 92  28. 05    7. 7  0. 297  1460. 1
 610. 0   0. 22   0. 19  34. 92  28. 05    7. 4  0. 299  1460. 2
 630. 0   0. 19   0. 16  34. 91  28. 05    7. 7  0. 300  1460. 4
 650. 0   0. 16   0. 13  34. 92  28. 05    7. 3  0. 302  1460. 6
 670. 0   0. 11   0. 08  34. 92  28. 06    6. 6  0. 303  1460. 7
 690. 0   0. 07   0. 04  34. 92  28. 05    6. 9  0. 305  1460. 8
 699. 5   0. 06   0. 03  34. 93  28. 06    6. 0  0. 305  1461. 0

                         DEPTH       TEMP.        SALIN

     BOT NUM = 1           3. 6      -1. 73       31. 65
     BOT NUM = 2          26. 1      -1. 74       31. 65
     BOT NUM = 3         385. 9       0. 73       34. 89
     BOT NUM = 4         700. 4       0. 06
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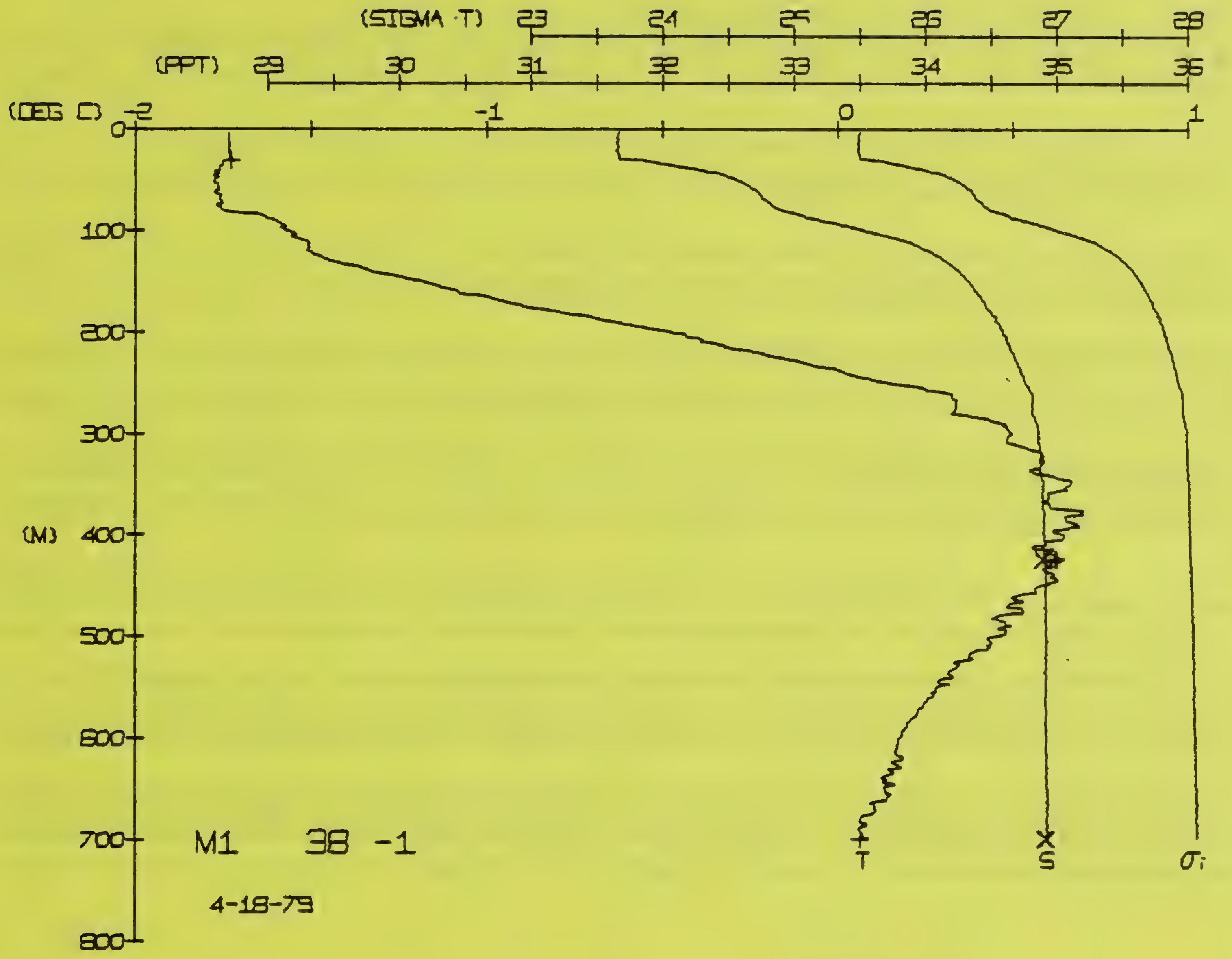

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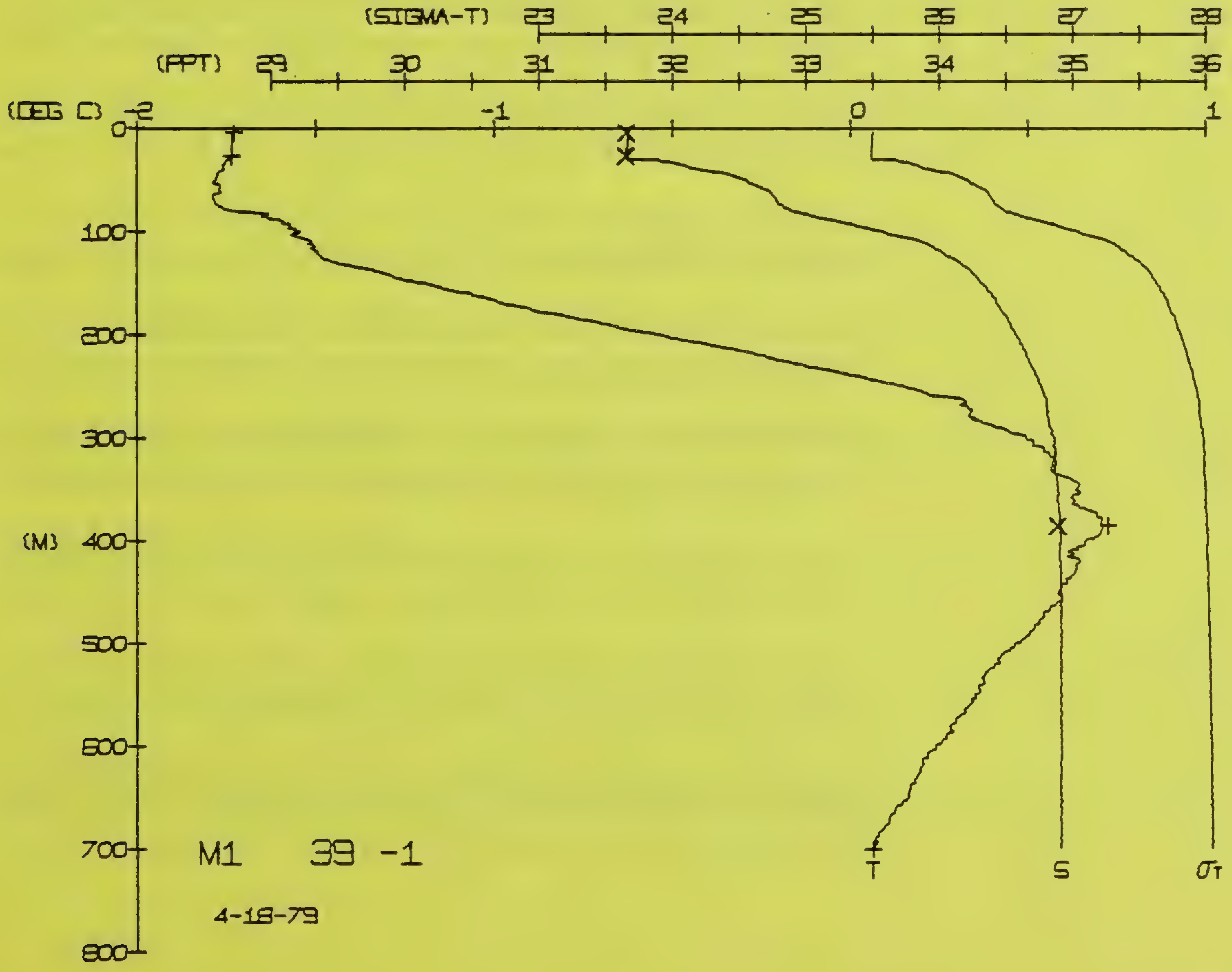

M1 39 -1

4-18-79

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FRAM 1  STATION  40(1) CTD  19/APR/1979  708 GMT  CODE = 1
LAT = 84.4772N LNG =    9.5460W LTER =       1. LGER =       1.
AIR TEMP = -26.7 BAROM = 1018.6 WIND = 321.0 SPEED =    3.5

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.68   25.50   248.8   0.000   1436.5
   3.1   -1.73   -1.73   31.68   25.50   248.7   0.008   1436.5
   5.0   -1.73   -1.73   31.67   25.50   249.2   0.013   1436.5
  10.0   -1.74   -1.74   31.65   25.49   250.3   0.025   1436.6
  15.0   -1.74   -1.74   31.65   25.48   250.5   0.038   1436.7
  20.0   -1.73   -1.73   31.65   25.48   250.7   0.050   1436.7
  25.0   -1.73   -1.73   31.65   25.48   250.4   0.063   1436.8
  30.0   -1.75   -1.75   31.99   25.76   224.2   0.075   1437.3
  35.0   -1.76   -1.76   32.09   25.84   216.3   0.086   1437.5
  40.0   -1.76   -1.77   32.21   25.94   207.0   0.097   1437.7
  45.0   -1.77   -1.77   32.30   26.01   200.2   0.107   1437.9
  50.0   -1.78   -1.78   32.48   26.16   186.2   0.117   1438.2
  55.0   -1.78   -1.78   32.57   26.23   179.1   0.126   1438.4
  60.0   -1.79   -1.79   32.67   26.31   171.6   0.135   1438.6
  65.0   -1.77   -1.77   32.73   26.36   167.0   0.143   1438.8
  70.0   -1.78   -1.78   32.78   26.40   163.4   0.152   1438.9
  80.0   -1.75   -1.75   32.91   26.50   153.5   0.167   1439.4
  90.0   -1.57   -1.57   33.23   26.76   128.7   0.182   1440.9
 100.0   -1.57   -1.57   33.56   27.03   103.4   0.193   1441.6
 110.0   -1.51   -1.51   33.87   27.27    80.2   0.203   1442.4
 120.0   -1.50   -1.50   34.04   27.41    67.1   0.210   1442.9
 130.0   -1.44   -1.44   34.16   27.51    58.1   0.216   1443.5
 140.0   -1.34   -1.34   34.25   27.58    51.0   0.222   1444.3
 150.0   -1.20   -1.20   34.33   27.63    45.9   0.227   1445.2
 160.0   -1.06   -1.07   34.39   27.68    41.3   0.231   1446.1
 170.0   -0.97   -0.98   34.43   27.71    38.6   0.235   1446.7
 180.0   -0.81   -0.82   34.48   27.75    35.2   0.239   1447.7
 190.0   -0.67   -0.69   34.54   27.78    31.9   0.242   1448.6
 200.0   -0.52   -0.53   34.58   27.81    29.2   0.245   1449.5
 210.0   -0.39   -0.39   34.62   27.84    27.0   0.248   1450.4
 220.0   -0.25   -0.26   34.65   27.86    25.3   0.251   1451.2
 230.0   -0.10   -0.11   34.70   27.89    22.1   0.253   1452.1
 240.0    0.01    0.00   34.72   27.90    21.2   0.256   1452.8
 250.0    0.16    0.15   34.77   27.93    18.4   0.258   1453.8
 260.0    0.30    0.29   34.80   27.95    16.6   0.259   1454.6
 270.0    0.32    0.31   34.81   27.96    16.3   0.261   1454.9
 280.0    0.34    0.33   34.81   27.96    16.3   0.263   1455.1
 290.0    0.42    0.41   34.84   27.97    15.1   0.264   1455.7
 300.0    0.51    0.50   34.86   27.98    13.9   0.266   1456.3
 310.0    0.54    0.53   34.87   27.99    13.4   0.267   1456.6
 320.0    0.58    0.56   34.87   27.99    13.2   0.268   1456.9
 330.0    0.58    0.56   34.88   27.99    13.0   0.270   1457.1
 340.0    0.57    0.56   34.87   27.99    13.3   0.271   1457.2
 350.0    0.64    0.62   34.89   28.00    12.5   0.272   1457.7
 370.0    0.67    0.65   34.90   28.01    12.1   0.275   1458.2
 390.0    0.70    0.68   34.91   28.01    11.6   0.277   1458.7
 410.0    0.65    0.63   34.90   28.01    11.6   0.280   1458.8
 430.0    0.61    0.59   34.91   28.02    11.2   0.282   1459.0
 450.0    0.59    0.57   34.91   28.02    10.3   0.284   1459.2
 470.0    0.55    0.53   34.91   28.02    10.2   0.286   1459.4
 490.0    0.50    0.48   34.92   28.03     9.6   0.288   1459.5
 510.0    0.44    0.42   34.91   28.03     9.5   0.290   1459.5
 530.0    0.39    0.36   34.92   28.04     8.9   0.292   1459.6
 550.0    0.35    0.32   34.91   28.04     8.8   0.294   1459.8
 570.0    0.32    0.29   34.91   28.04     8.6   0.295   1460.0
 590.0    0.28    0.25   34.92   28.04     8.2   0.297   1460.1
 610.0    0.25    0.22   34.92   28.05     7.8   0.299   1460.3
 630.0    0.18    0.15   34.92   28.05     7.2   0.300   1460.3
 650.0    0.14    0.11   34.92   28.05     7.1   0.302   1460.5
 670.0    0.10    0.07   34.92   28.05     7.0   0.303   1460.6
 690.0    0.07    0.04   34.92   28.06     6.2   0.304   1460.9
 698.0    0.06    0.03   34.92   28.06     6.5   0.305   1460.9

                         DEPTH       TEMP.       SALIN

     BOT NUM = 1           3.4                   31.66
     BOT NUM = 2          25.7       -1.74       31.66
     BOT NUM = 3         385.1        0.70       34.90
     BOT NUM = 4         700.2        0.06       34.91
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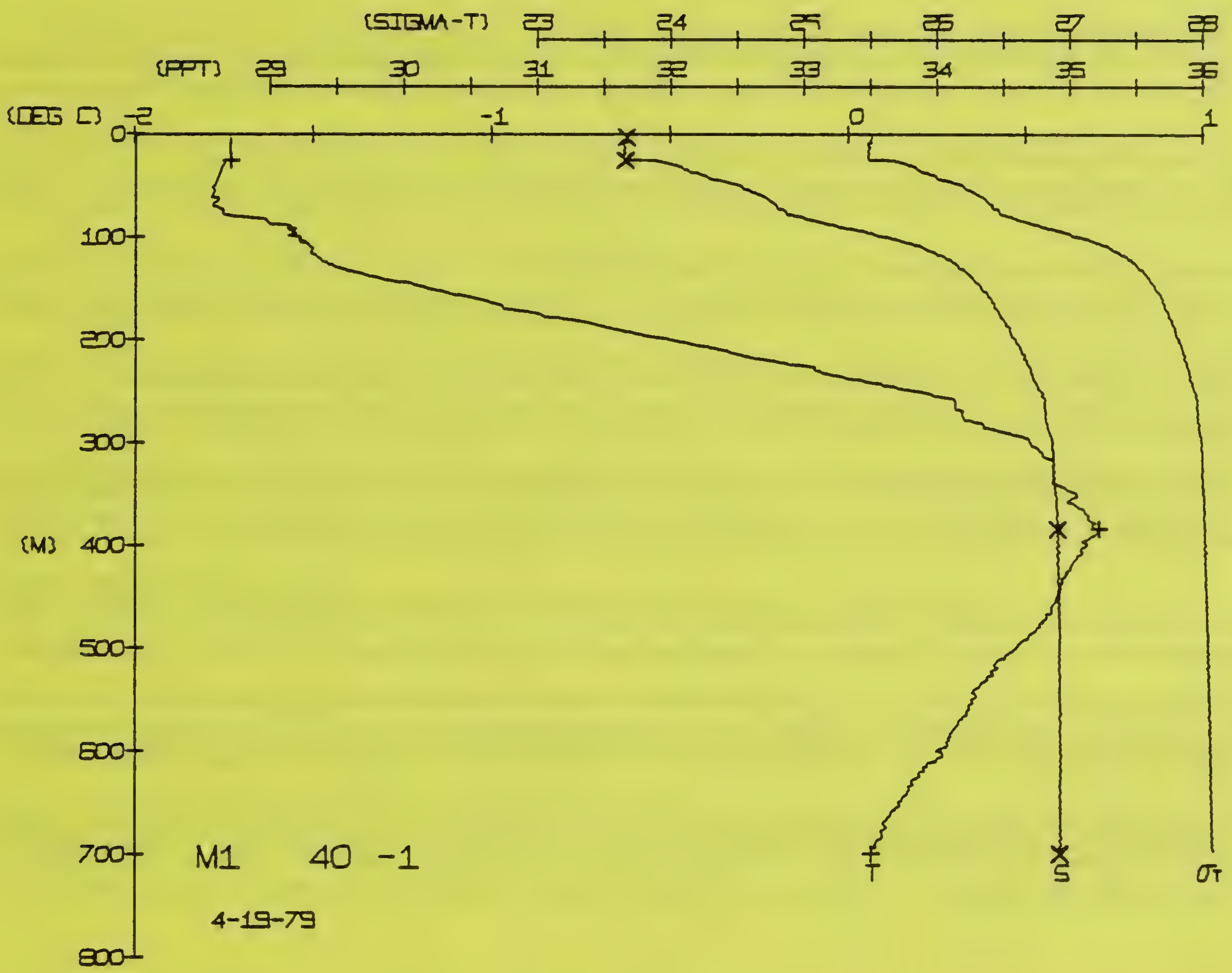
FRAM 1  STATION  41(1) CTD  19/APR/1979 1901 GMT  CODE = 1
LAT = 84.4450N LNG =    9.3125W LTER =       0. LGER =       0.
AIR TEMP = -26.4 BAROM = 1019.5 WIND = 294.0 SPEED =    5.7

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   31.69   25.51   248.6   0.000   1436.4
   3.0   -1.74   -1.74   31.69   25.51   248.5   0.008   1436.5
   5.0   -1.73   -1.73   31.68   25.51   248.3   0.013   1436.5
  10.0   -1.73   -1.73   31.67   25.50   249.4   0.025   1436.6
  15.0   -1.73   -1.73   31.68   25.50   248.6   0.038   1436.7
  20.0   -1.73   -1.73   31.68   25.51   248.3   0.050   1436.8
  25.0   -1.74   -1.74   31.73   25.54   244.7   0.062   1436.9
  30.0   -1.74   -1.75   31.84   25.64   235.6   0.075   1437.1
  35.0   -1.75   -1.76   32.05   25.81   219.4   0.086   1437.5
  40.0   -1.76   -1.76   32.13   25.87   213.1   0.097   1437.6
  45.0   -1.76   -1.76   32.21   25.93   207.5   0.108   1437.8
  50.0   -1.77   -1.77   32.41   26.10   191.7   0.118   1438.1
  55.0   -1.74   -1.75   32.54   26.21   181.6   0.127   1438.5
  60.0   -1.71   -1.72   32.64   26.29   173.9   0.136   1438.9
  65.0   -1.70   -1.70   32.72   26.35   167.9   0.145   1439.1
  70.0   -1.67   -1.67   32.78   26.40   163.3   0.153   1439.5
  80.0   -1.64   -1.64   32.98   26.56   147.8   0.169   1440.1
  90.0   -1.56   -1.56   33.30   26.82   123.5   0.182   1441.1
 100.0   -1.56   -1.56   33.59   27.05   101.2   0.194   1441.6
 110.0   -1.52   -1.52   33.85   27.26    81.7   0.203   1442.3
 120.0   -1.49   -1.50   34.05   27.42    66.3   0.210   1442.9
 130.0   -1.44   -1.44   34.14   27.50    59.0   0.217   1443.5
 140.0   -1.36   -1.36   34.23   27.56    52.5   0.222   1444.1
 150.0   -1.23   -1.23   34.31   27.62    46.9   0.227   1445.0
 160.0   -1.08   -1.09   34.38   27.67    42.3   0.232   1446.0
 170.0   -0.96   -0.97   34.43   27.71    38.9   0.236   1446.8
 180.0   -0.84   -0.84   34.48   27.75    35.4   0.240   1447.6
 190.0   -0.69   -0.70   34.53   27.78    32.0   0.243   1448.5
 200.0   -0.54   -0.55   34.58   27.81    29.4   0.246   1449.4
 210.0   -0.37   -0.38   34.62   27.84    26.7   0.249   1450.4
 220.0   -0.24   -0.25   34.65   27.86    25.4   0.252   1451.3
 230.0   -0.13   -0.14   34.68   27.88    23.2   0.254   1452.0
 240.0   -0.03   -0.03   34.71   27.90    21.5   0.256   1452.7
 250.0    0.10    0.09   34.75   27.92    19.7   0.258   1453.4
 260.0    0.28    0.27   34.80   27.95    17.1   0.260   1454.5
 270.0    0.30    0.29   34.81   27.95    16.4   0.262   1454.8
 280.0    0.36    0.34   34.82   27.96    15.8   0.264   1455.2
 290.0    0.46    0.44   34.84   27.97    14.7   0.265   1455.8
 300.0    0.51    0.49   34.86   27.98    14.1   0.267   1456.3
 310.0    0.53    0.52   34.86   27.98    13.8   0.268   1456.5
 320.0    0.56    0.55   34.87   27.99    13.6   0.269   1456.8
 330.0    0.57    0.55   34.87   27.99    13.6   0.271   1457.1
 337.9    0.57    0.56   34.87   27.99    13.3   0.272   1457.2

                         DEPTH       TEMP.       SALIN
```



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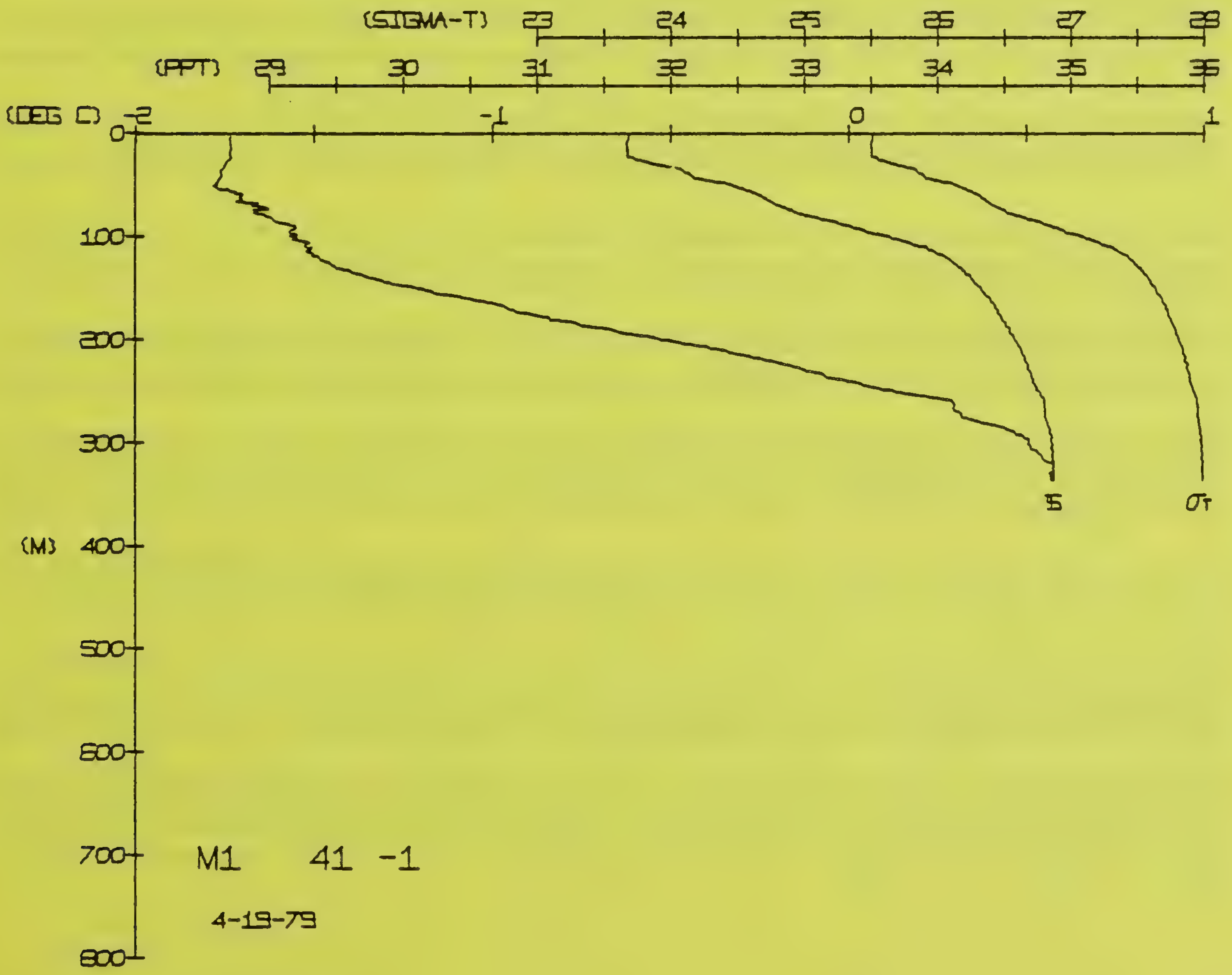

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 FRAM 1  STATION  42(1) CTD  19/APR/1979 2214 GMT  CODE = 1
LAT = 84.4380N LNG =   9.2514W LTER =     25. LGER =     48.
AIR TEMP = -26.4 BAROM = 1019.4 WIND = 294.0 SPEED =    5.7

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.68   25.51   248.2   0.000  1436.5
   3.0   -1.73   -1.73   31.68   25.51   248.2   0.008  1436.5
   5.0   -1.73   -1.73   31.69   25.51   247.9   0.012  1436.5
  10.0   -1.73   -1.73   31.69   25.51   247.8   0.025  1436.6
  15.0   -1.73   -1.73   31.68   25.51   248.2   0.037  1436.7
  20.0   -1.73   -1.73   31.69   25.52   247.1   0.050  1436.8
  25.0   -1.74   -1.74   31.74   25.56   243.2   0.062  1436.9
  30.0   -1.74   -1.74   31.79   25.60   239.4   0.074  1437.1
  35.0   -1.75   -1.76   32.01   25.78   222.6   0.086  1437.4
  40.0   -1.76   -1.76   32.11   25.85   215.1   0.097  1437.6
  45.0   -1.77   -1.77   32.23   25.95   205.8   0.108  1437.8
  50.0   -1.78   -1.78   32.43   26.12   190.1   0.118  1438.1
  55.0   -1.77   -1.77   32.54   26.20   181.9   0.127  1438.4
  60.0   -1.75   -1.75   32.64   26.29   173.7   0.136  1438.7
  65.0   -1.78   -1.78   32.72   26.35   168.0   0.145  1438.8
  70.0   -1.77   -1.78   32.78   26.40   163.4   0.153  1439.0
  80.0   -1.66   -1.66   32.97   26.55   148.6   0.169  1440.0
  90.0   -1.58   -1.58   33.34   26.85   120.6   0.182  1441.0
 100.0   -1.57   -1.57   33.62   27.07    98.9   0.193  1441.6
 110.0   -1.51   -1.51   33.90   27.30    77.9   0.202  1442.5
 120.0   -1.50   -1.50   34.04   27.41    67.0   0.210  1442.9
 130.0   -1.45   -1.45   34.15   27.50    58.9   0.216  1443.4
 140.0   -1.34   -1.34   34.25   27.58    51.0   0.221  1444.3
 150.0   -1.22   -1.22   34.33   27.64    45.6   0.226  1445.1
 160.0   -1.06   -1.06   34.39   27.68    41.3   0.231  1446.1
 170.0   -0.93   -0.94   34.45   27.72    37.6   0.235  1446.9
 180.0   -0.83   -0.83   34.50   27.76    34.1   0.238  1447.7
 190.0   -0.67   -0.67   34.54   27.79    31.4   0.242  1448.6
 200.0   -0.52   -0.53   34.59   27.82    28.5   0.245  1449.5
 210.0   -0.39   -0.39   34.62   27.84    27.0   0.247  1450.4
 220.0   -0.24   -0.25   34.66   27.86    24.5   0.250  1451.3
 230.0   -0.13   -0.14   34.69   27.88    22.7   0.252  1452.0
 240.0    0.00   -0.01   34.72   27.90    21.1   0.255  1452.8
 250.0    0.13    0.12   34.76   27.93    18.8   0.257  1453.6
 260.0    0.25    0.24   34.79   27.94    17.3   0.258  1454.3
 270.0    0.29    0.28   34.81   27.95    16.5   0.260  1454.7
 280.0    0.32    0.31   34.82   27.96    15.8   0.262  1455.0
 290.0    0.43    0.42   34.83   27.97    15.1   0.263  1455.7
 300.0    0.50    0.48   34.86   27.99    13.6   0.265  1456.2
 310.0    0.52    0.50   34.87   27.99    13.4   0.266  1456.5
 320.0    0.55    0.53   34.87   27.99    13.2   0.268  1456.8
 330.0    0.57    0.55   34.87   27.99    13.2   0.269  1457.0
 340.0    0.57    0.56   34.88   28.00    12.8   0.270  1457.2
 350.0    0.61    0.59   34.88   28.00    12.8   0.271  1457.6
 370.0    0.65    0.63   34.89   28.00    12.3   0.274  1458.1
 390.0    0.69    0.67   34.90   28.01    11.8   0.276  1458.6
 410.0    0.64    0.62   34.90   28.01    11.5   0.279  1458.7
 430.0    0.61    0.59   34.90   28.01    11.4   0.281  1459.0
 450.0    0.59    0.57   34.91   28.02    10.7   0.283  1459.2
 470.0    0.58    0.55   34.91   28.03    10.2   0.285  1459.5
 490.0    0.50    0.48   34.91   28.02    10.3   0.288  1459.5
 510.0    0.46    0.44   34.91   28.03     9.7   0.290  1459.6
 530.0    0.38    0.36   34.91   28.03     9.7   0.291  1459.6
 550.0    0.38    0.35   34.92   28.04     8.9   0.293  1459.9
 570.0    0.33    0.30   34.92   28.04     8.6   0.295  1460.0
 590.0    0.29    0.27   34.92   28.05     8.0   0.297  1460.2
 610.0    0.25    0.22   34.92   28.05     7.6   0.298  1460.3
 630.0    0.20    0.17   34.92   28.05     7.2   0.300  1460.4
 650.0    0.13    0.11   34.92   28.05     7.3   0.301  1460.5
 670.0    0.11    0.08   34.92   28.05     7.0   0.303  1460.7
 690.0    0.08    0.05   34.92   28.05     6.9   0.304  1460.9
 700.1    0.07    0.04   34.94   28.08     4.8   0.305  1461.1

                           DEPTH       TEMP.       SALIN

        BOT NUM = 1          3.6                   31.67
        BOT NUM = 2         23.4       -1.74       31.71
        BOT NUM = 3        385.6        0.70       34.88
        BOT NUM = 4        699.1        0.07       34.91
```

```
 FRAM 1  STATION  43(1) CTD  20/APR/1979  647 GMT  CODE = 1
LAT = 84.4233N LNG =   9.1207W LTER =     12. LGER =     37.
AIR TEMP = -27.3 BAROM = 1018.1 WIND = 299.0 SPEED =    5.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.71   25.53   246.3   0.000  1436.5
   3.1   -1.73   -1.73   31.71   25.53   246.2   0.008  1436.6
   5.0   -1.73   -1.73   31.70   25.53   246.6   0.012  1436.6
  10.0   -1.73   -1.73   31.70   25.53   246.6   0.025  1436.7
  15.0   -1.73   -1.73   31.71   25.53   246.0   0.037  1436.8
  20.0   -1.74   -1.74   31.72   25.54   244.8   0.050  1436.8
  25.0   -1.74   -1.74   31.75   25.56   242.7   0.062  1437.0
  30.0   -1.74   -1.74   31.79   25.60   239.5   0.074  1437.1
  35.0   -1.75   -1.75   31.91   25.69   230.6   0.086  1437.3
  40.0   -1.76   -1.76   32.07   25.83   217.6   0.097  1437.6
  45.0   -1.76   -1.76   32.14   25.88   212.4   0.108  1437.7
  50.0   -1.74   -1.74   32.39   26.08   193.5   0.118  1438.3
  55.0   -1.69   -1.69   32.48   26.16   186.2   0.128  1438.7
  60.0   -1.73   -1.73   32.59   26.23   178.8   0.137  1438.7
  65.0   -1.71   -1.71   32.69   26.32   170.6   0.146  1439.1
  70.0   -1.72   -1.72   32.76   26.38   164.9   0.154  1439.2
  80.0   -1.68   -1.68   32.97   26.55   148.4   0.170  1439.9
  90.0   -1.58   -1.58   33.28   26.80   124.9   0.184  1440.9
 100.0   -1.59   -1.59   33.62   27.08    98.6   0.195  1441.5
 110.0   -1.52   -1.53   33.86   27.27    80.3   0.204  1442.4
 120.0   -1.50   -1.50   34.05   27.42    66.3   0.211  1442.9
 130.0   -1.44   -1.45   34.16   27.51    57.9   0.218  1443.5
 140.0   -1.33   -1.33   34.25   27.58    51.0   0.223  1444.3
 150.0   -1.20   -1.20   34.32   27.63    46.4   0.228  1445.2
 160.0   -1.10   -1.11   34.37   27.67    42.9   0.233  1445.9
 170.0   -0.97   -0.98   34.43   27.71    39.1   0.237  1446.7
 180.0   -0.81   -0.82   34.49   27.75    35.0   0.240  1447.7
 190.0   -0.66   -0.66   34.54   27.78    31.9   0.244  1448.7
 200.0   -0.51   -0.51   34.59   27.82    28.8   0.247  1449.6
 210.0   -0.37   -0.37   34.62   27.84    27.1   0.250  1450.5
 220.0   -0.22   -0.23   34.66   27.86    24.8   0.252  1451.4
 230.0   -0.11   -0.12   34.69   27.88    23.0   0.255  1452.0
 240.0   -0.01   -0.02   34.71   27.90    21.6   0.257  1452.7
 250.0    0.14    0.13   34.75   27.92    19.4   0.259  1453.6
 260.0    0.26    0.25   34.79   27.94    17.7   0.261  1454.4
 270.0    0.31    0.30   34.81   27.95    16.5   0.263  1454.8
 280.0    0.33    0.32   34.81   27.96    16.3   0.264  1455.1
 290.0    0.42    0.41   34.83   27.97    15.4   0.266  1455.7
 300.0    0.52    0.51   34.85   27.98    14.3   0.267  1456.3
 310.0    0.57    0.55   34.86   27.98    13.9   0.269  1456.7
 320.0    0.58    0.56   34.87   27.99    13.5   0.270  1456.9
 330.0    0.58    0.57   34.87   27.99    13.7   0.272  1457.1
 340.0    0.59    0.58   34.87   27.99    13.7   0.273  1457.3
 350.0    0.66    0.64   34.89   28.00    12.6   0.274  1457.8
 370.0    0.70    0.68   34.90   28.01    12.0   0.277  1458.4
 390.0    0.72    0.70   34.91   28.01    11.5   0.279  1458.8
 410.0    0.65    0.63   34.90   28.01    11.7   0.282  1458.8
 430.0    0.61    0.59   34.90   28.01    11.8   0.284  1458.9
 450.0    0.58    0.56   34.90   28.02    11.2   0.286  1459.2
 470.0    0.56    0.53   34.91   28.02    10.3   0.288  1459.4
 490.0    0.50    0.47   34.91   28.02    10.2   0.291  1459.4
 510.0    0.44    0.42   34.92   28.03     9.3   0.292  1459.5
 530.0    0.40    0.37   34.91   28.03     9.6   0.294  1459.7
 550.0    0.34    0.31   34.91   28.04     8.7   0.296  1459.7
 570.0    0.30    0.28   34.92   28.04     8.3   0.298  1459.9
 590.0    0.25    0.22   34.92   28.05     8.0   0.300  1460.0
 610.0    0.22    0.19   34.92   28.05     7.9   0.301  1460.2
 630.0    0.18    0.16   34.92   28.05     7.2   0.303  1460.4
 650.0    0.13    0.10   34.91   28.05     7.4   0.304  1460.5
 670.0    0.10    0.07   34.91   28.05     7.2   0.306  1460.6
 690.0    0.07    0.04   34.92   28.06     6.6   0.307  1460.8

                           DEPTH       TEMP.       SALIN

        BOT NUM = 1          3.6                   31.69
        BOT NUM = 2         25.3                   31.73
        BOT NUM = 3        401.2        0.67       34.88
        BOT NUM = 4        698.0        0.05       34.90
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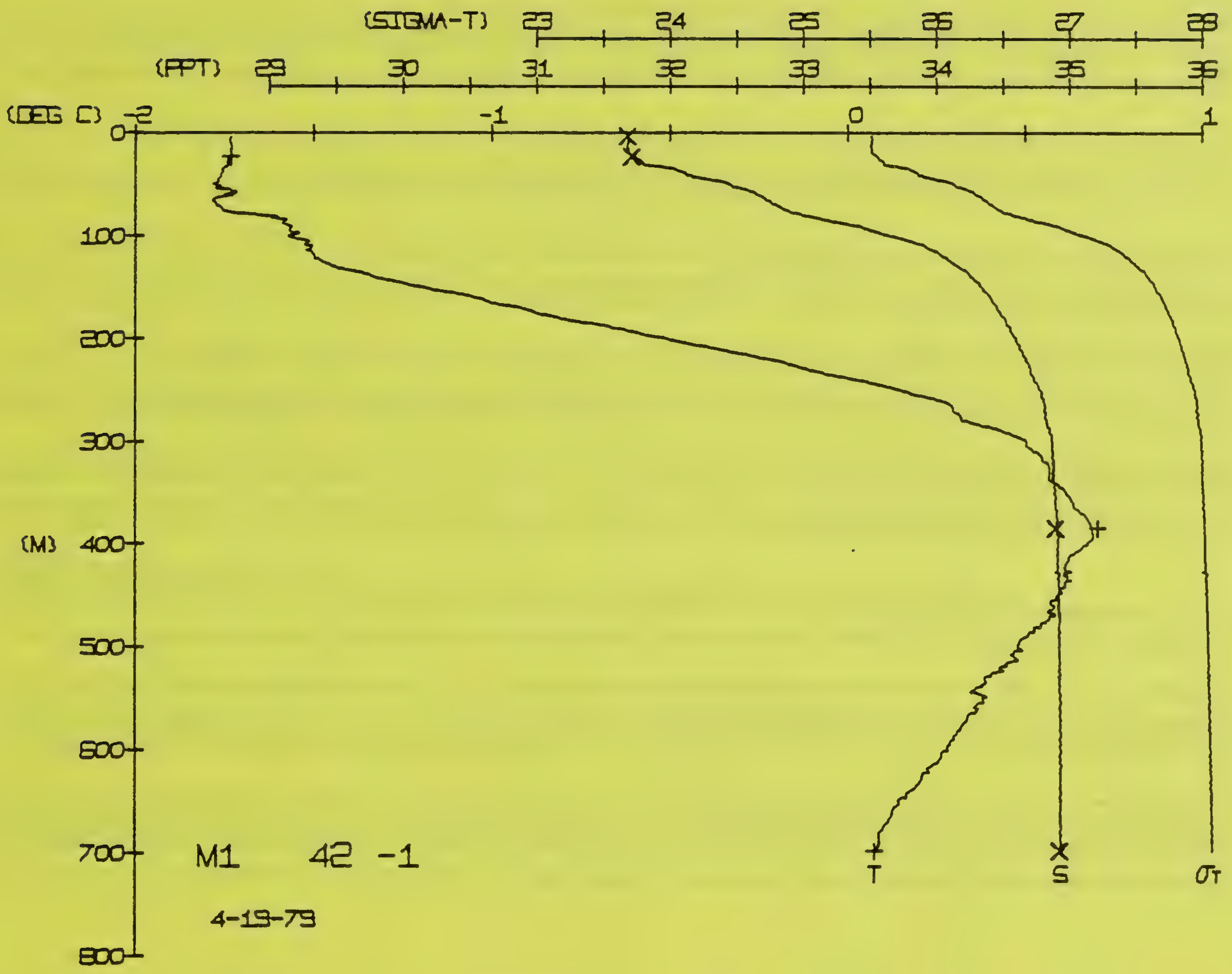
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σT
M1 42 -1
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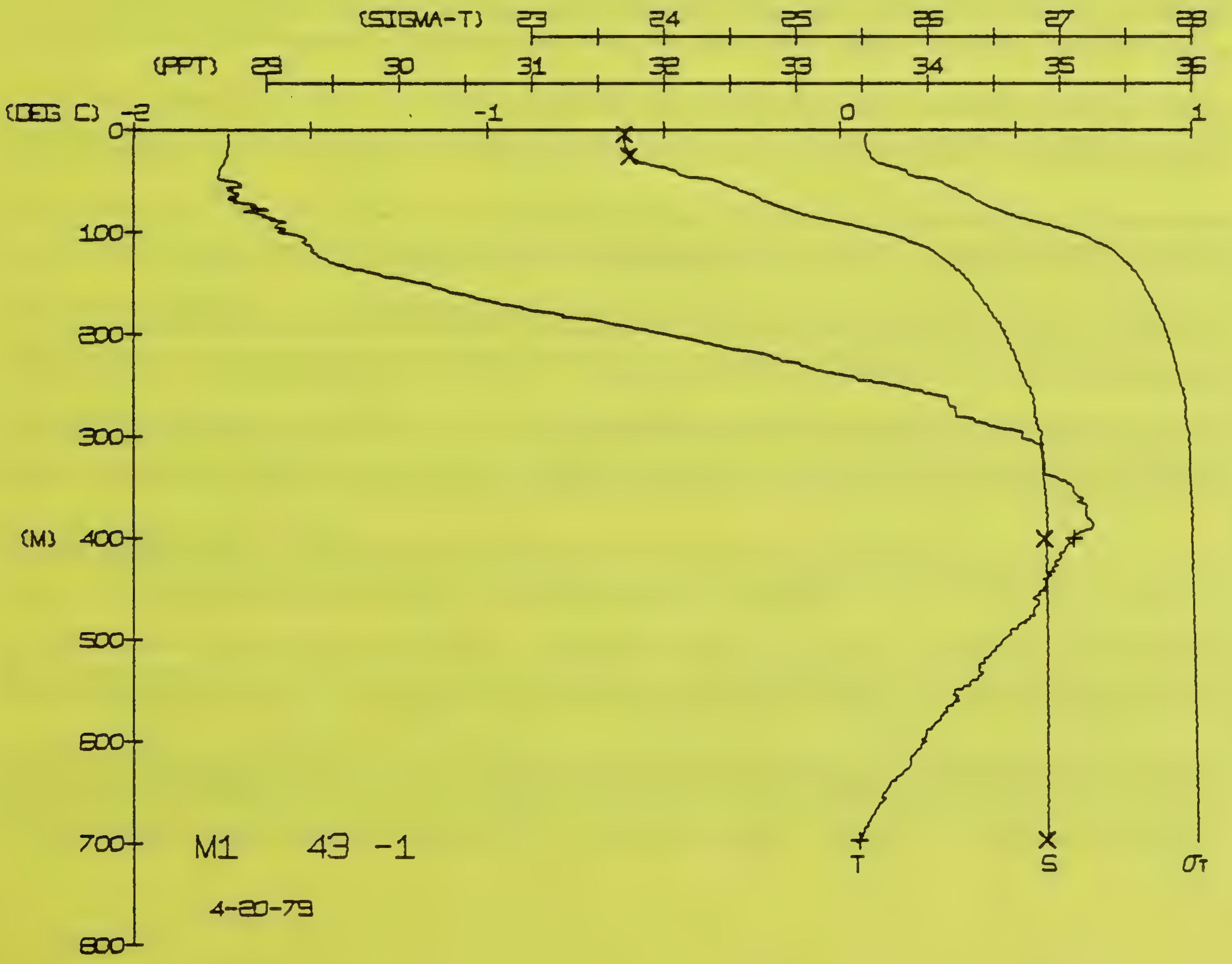
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(PPT) 29 30 31 32 33 34 35 36
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T
S
σT
M1 43 -1
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```
 FRAM 1  STATION  44(1) CTD  20/APR/1979 1901 GMT  CODE = 1
LAT = 84.3936N LNG =   8.8688W LTER =     23. LGER =      40.
AIR TEMP = -27.3 BAROM = 1017.3 WIND = 299.0 SPEED =     5.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.73   -1.73   31.78   25.58   241.1   0.000   1436.6
   3.1   -1.73   -1.73   31.78   25.58   241.0   0.007   1436.7
   5.0   -1.73   -1.73   31.77   25.58   241.1   0.012   1436.7
  10.0   -1.73   -1.73   31.77   25.58   241.9   0.024   1436.8
  15.0   -1.73   -1.73   31.77   25.58   241.5   0.036   1436.9
  20.0   -1.73   -1.73   31.78   25.59   240.3   0.049   1436.9
  25.0   -1.74   -1.74   31.85   25.64   235.4   0.061   1437.1
  30.0   -1.75   -1.75   31.90   25.68   231.4   0.072   1437.2
  35.0   -1.75   -1.75   31.98   25.75   225.3   0.084   1437.4
  40.0   -1.76   -1.76   32.07   25.83   217.6   0.095   1437.6
  45.0   -1.76   -1.76   32.13   25.87   213.5   0.106   1437.7
  50.0   -1.75   -1.75   32.31   26.02   199.3   0.116   1438.1
  55.0   -1.75   -1.75   32.51   26.18   184.4   0.126   1438.4
  60.0   -1.71   -1.71   32.59   26.25   177.6   0.135   1438.9
  65.0   -1.71   -1.71   32.68   26.32   170.6   0.144   1439.0
  70.0   -1.69   -1.69   32.77   26.39   164.0   0.152   1439.4
  80.0   -1.64   -1.64   33.01   26.58   145.7   0.168   1440.1
  90.0   -1.59   -1.59   33.36   26.87   118.8   0.181   1441.0
 100.0   -1.56   -1.56   33.68   27.13    94.1   0.192   1441.8
 110.0   -1.53   -1.53   33.89   27.29    78.7   0.201   1442.4
 120.0   -1.50   -1.50   34.04   27.42    66.6   0.208   1442.9
 130.0   -1.42   -1.42   34.15   27.50    58.6   0.214   1443.6
 140.0   -1.34   -1.35   34.23   27.56    53.1   0.220   1444.2
 150.0   -1.18   -1.19   34.32   27.63    46.6   0.225   1445.2
 160.0   -1.04   -1.05   34.39   27.68    41.3   0.229   1446.2
 170.0   -0.90   -0.91   34.45   27.72    37.7   0.233   1447.1
 180.0   -0.79   -0.80   34.50   27.76    33.9   0.237   1447.8
 190.0   -0.63   -0.64   34.55   27.79    31.1   0.240   1448.8
 200.0   -0.49   -0.50   34.59   27.82    28.6   0.243   1449.7
 210.0   -0.37   -0.38   34.62   27.84    26.5   0.246   1450.4
 220.0   -0.24   -0.24   34.65   27.86    25.3   0.249   1451.3
 230.0   -0.08   -0.09   34.70   27.89    22.4   0.251   1452.2
 240.0    0.06    0.05   34.73   27.91    20.7   0.253   1453.1
 250.0    0.21    0.20   34.77   27.93    18.4   0.255   1454.0
 260.0    0.29    0.28   34.80   27.95    17.2   0.257   1454.5
 270.0    0.33    0.32   34.81   27.95    16.5   0.259   1454.9
 280.0    0.38    0.37   34.82   27.96    15.9   0.260   1455.3
 290.0    0.48    0.47   34.85   27.98    14.2   0.262   1456.0
 300.0    0.51    0.49   34.86   27.98    14.0   0.263   1456.3
 310.0    0.55    0.53   34.87   27.99    13.5   0.265   1456.6
 320.0    0.57    0.56   34.87   27.99    13.7   0.266   1456.9
 330.0    0.59    0.57   34.87   27.99    13.2   0.267   1457.1
 340.0    0.62    0.61   34.88   28.00    12.8   0.269   1457.5
 350.0    0.64    0.63   34.89   28.00    12.5   0.270   1457.7
 370.0    0.69    0.67   34.90   28.00    12.3   0.273   1458.3
 390.0    0.70    0.68   34.90   28.01    12.0   0.275   1458.7
 410.0    0.64    0.62   34.90   28.01    11.8   0.277   1458.8
 430.0    0.60    0.58   34.91   28.02    11.0   0.280   1458.9
 450.0    0.57    0.55   34.90   28.02    11.0   0.282   1459.1
 470.0    0.54    0.52   34.91   28.02    10.5   0.284   1459.3
 490.0    0.49    0.47   34.91   28.02    10.3   0.286   1459.4
 510.0    0.42    0.40   34.91   28.03     9.7   0.288   1459.4
 530.0    0.39    0.36   34.91   28.03     9.3   0.290   1459.6
 550.0    0.35    0.33   34.91   28.04     9.0   0.292   1459.8
 570.0    0.29    0.26   34.91   28.04     8.4   0.294   1459.8
 590.0    0.27    0.24   34.92   28.05     7.8   0.295   1460.1
 610.0    0.22    0.20   34.92   28.05     7.8   0.297   1460.2
 630.0    0.18    0.16   34.92   28.05     7.3   0.298   1460.4
 650.0    0.15    0.12   34.92   28.05     7.4   0.300   1460.5
 670.0    0.10    0.08   34.92   28.06     6.9   0.301   1460.7
 690.0    0.09    0.06   34.91   28.05     7.0   0.303   1460.9

                          DEPTH      TEMP.       SALIN

       BOT NUM = 1          3.9                  31.76
       BOT NUM = 2         27.1      -1.75       31.88
       BOT NUM = 3        386.3       0.70       34.88
       BOT NUM = 4        699.0       0.07       34.90
```

```
 FRAM 1  STATION  45(1) CTD  21/APR/1979  705 GMT  CODE = 1
LAT = 84.3660N LNG =   8.6588W LTER =      0. LGER =       1.
AIR TEMP = -27.0 BAROM = 1015.9 WIND = 295.0 SPEED =     6.8

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0   -1.73   -1.73   31.80   25.61   239.0   0.000   1436.7
  3.1   -1.73   -1.73   31.80   25.61   238.9   0.007   1436.7
  5.0   -1.73   -1.73   31.80   25.61   238.9   0.012   1436.8
 10.0   -1.73   -1.73   31.80   25.61   238.9   0.024   1436.8
 15.0   -1.73   -1.73   31.81   25.61   239.6   0.036   1436.9
 20.0   -1.73   -1.74   31.82   25.62   237.1   0.048   1437.0
 25.0   -1.75   -1.75   31.88   25.67   232.5   0.060   1437.1
 30.0   -1.75   -1.75   31.90   25.69   231.0   0.072   1437.2
 35.0   -1.75   -1.75   32.00   25.76   223.7   0.083   1437.4
 40.0   -1.76   -1.76   32.07   25.82   217.9   0.094   1437.6
 45.0   -1.76   -1.76   32.22   25.94   206.4   0.105   1437.8
 50.0   -1.78   -1.78   32.54   26.20   181.9   0.115   1438.3
 55.0   -1.78   -1.78   32.58   26.24   178.7   0.124   1438.4
 60.0   -1.77   -1.77   32.65   26.29   173.1   0.133   1438.6
 65.0   -1.78   -1.79   32.72   26.35   167.8   0.141   1438.8
 70.0   -1.77   -1.77   32.77   26.39   164.0   0.149   1439.0
 80.0   -1.66   -1.66   32.96   26.55   149.1   0.165   1439.9
 90.0   -1.62   -1.63   33.32   26.83   121.8   0.179   1440.8
100.0   -1.55   -1.55   33.64   27.09    97.6   0.190   1441.7
110.0   -1.54   -1.54   33.87   27.28    79.6   0.199   1442.3
120.0   -1.45   -1.46   34.07   27.43    65.0   0.206   1443.1
130.0   -1.39   -1.39   34.18   27.52    56.6   0.212   1443.8
140.0   -1.27   -1.28   34.26   27.59    50.6   0.218   1444.6
150.0   -1.18   -1.19   34.34   27.64    45.1   0.223   1445.3
160.0   -1.09   -1.09   34.39   27.68    41.3   0.227   1446.0
170.0   -0.88   -0.89   34.45   27.72    37.9   0.231   1447.2
180.0   -0.75   -0.75   34.51   27.76    33.8   0.235   1448.0
190.0   -0.54   -0.54   34.56   27.80    30.4   0.238   1449.3
200.0   -0.42   -0.43   34.60   27.83    28.0   0.241   1450.0
210.0   -0.32   -0.32   34.63   27.84    26.4   0.243   1450.7
220.0   -0.21   -0.21   34.66   27.86    25.0   0.246   1451.4
230.0   -0.07   -0.08   34.70   27.89    22.5   0.248   1452.2
240.0    0.04    0.03   34.73   27.90    21.0   0.251   1453.0
250.0    0.19    0.18   34.77   27.93    18.8   0.253   1453.9
260.0    0.28    0.27   34.80   27.95    17.0   0.255   1454.5
270.0    0.32    0.31   34.81   27.95    16.4   0.256   1454.9
280.0    0.36    0.35   34.82   27.96    15.7   0.258   1455.2
290.0    0.47    0.46   34.84   27.97    14.8   0.259   1455.9
300.0    0.51    0.50   34.85   27.98    14.3   0.261   1456.3
310.0    0.54    0.53   34.86   27.98    13.8   0.262   1456.6
320.0    0.58    0.57   34.87   27.99    13.8   0.264   1456.9
330.0    0.58    0.56   34.87   27.99    13.6   0.265   1457.1
340.0    0.60    0.59   34.88   27.99    13.1   0.266   1457.4
350.0    0.63    0.62   34.89   28.00    12.4   0.268   1457.7
370.0    0.69    0.67   34.90   28.00    12.1   0.270   1458.3
390.0    0.67    0.65   34.91   28.01    11.5   0.273   1458.6
410.0    0.63    0.61   34.90   28.01    11.5   0.275   1458.7
430.0    0.60    0.58   34.91   28.02    10.8   0.277   1458.9
450.0    0.56    0.54   34.91   28.02    10.6   0.279   1459.1
470.0    0.53    0.51   34.91   28.02    10.3   0.281   1459.3
490.0    0.47    0.45   34.91   28.03     9.6   0.283   1459.3
510.0    0.43    0.40   34.91   28.03     9.5   0.285   1459.5
530.0    0.36    0.34   34.91   28.03     9.2   0.287   1459.5
550.0    0.33    0.30   34.91   28.03     9.1   0.289   1459.7
570.0    0.28    0.25   34.92   28.04     8.1   0.291   1459.8
590.0    0.23    0.20   34.91   28.04     8.0   0.292   1459.9
610.0    0.19    0.17   34.91   28.04     8.2   0.294   1460.1
630.0    0.16    0.14   34.92   28.05     7.3   0.296   1460.3
650.0    0.14    0.11   34.91   28.05     7.5   0.297   1460.5
670.0    0.10    0.07   34.92   28.05     7.0   0.299   1460.7
690.0    0.07    0.04   34.92   28.06     6.7   0.300   1460.8
699.3    0.05    0.02   34.93   28.07     5.7   0.301   1461.0

                         DEPTH      TEMP.       SALIN

      BOT NUM = 1          3.7                  31.79
      BOT NUM = 2         21.6      -1.72
      BOT NUM = 3        384.6       0.70
      BOT NUM = 4        698.4       0.06       34.90
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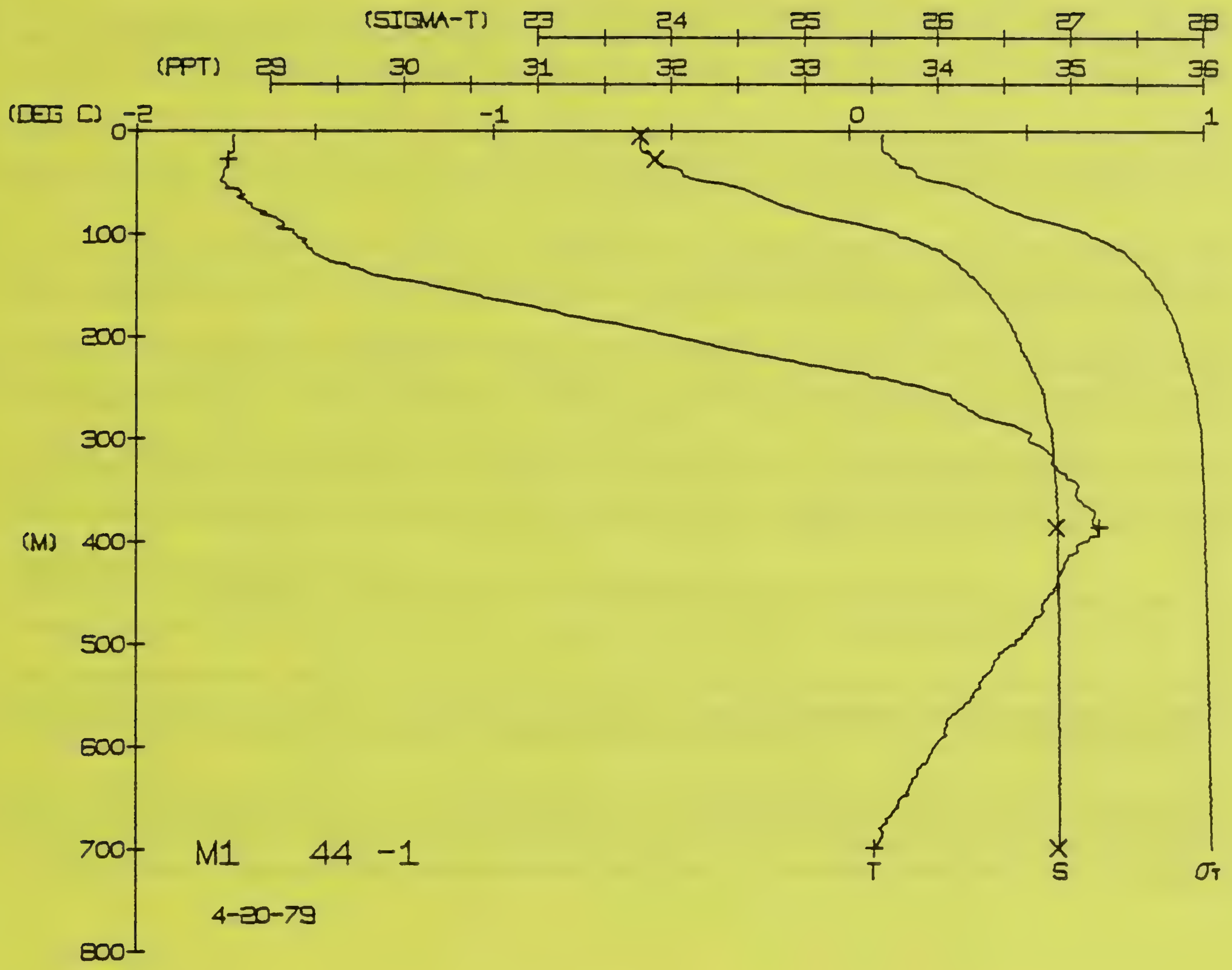
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(M) 400
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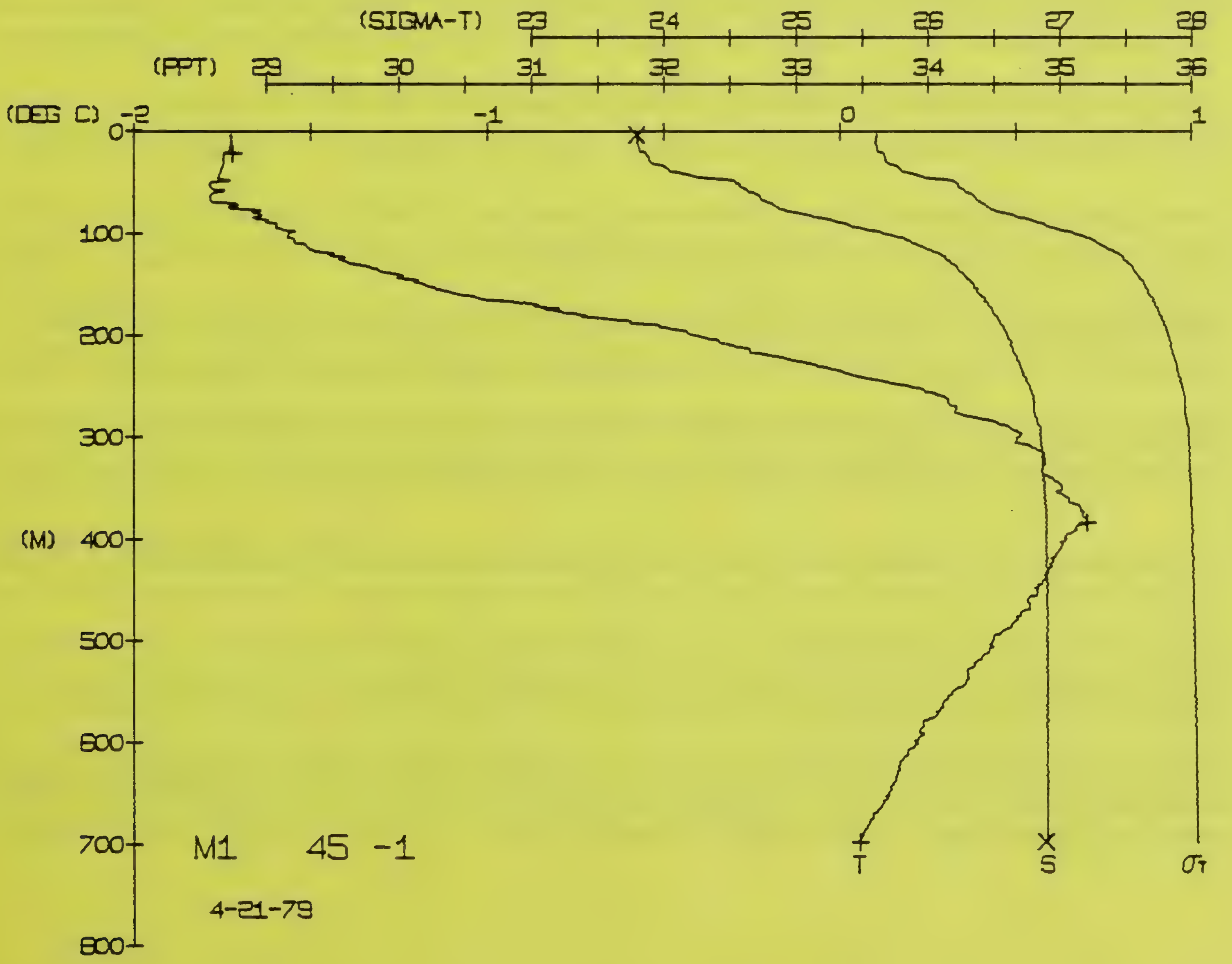
T
S
σT
M1 44 -1
4-20-79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100
200
300
(M) 400
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600
700
800
T
S
σT
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```
 FRAM 1  STATION  46(1) CTD  21/APR/1979 1831 GMT  CODE = 1
LAT = 84. 3379N LNG =    8. 4345W LTER =      0. LGER =      1.
AIR TEMP  = -27. 0 BAROM = 1014. 2 WIND = 295. 0 SPEED =    6. 8

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 73  -1. 73  31. 78  25. 59  240. 6  0. 000  1436. 6
   3. 0  -1. 73  -1. 73  31. 78  25. 59  240. 6  0. 007  1436. 7
   5. 0  -1. 73  -1. 73  31. 79  25. 60  239. 8  0. 012  1436. 7
  10. 0  -1. 73  -1. 73  31. 81  25. 61  238. 5  0. 024  1436. 8
  15. 0  -1. 73  -1. 73  31. 85  25. 65  235. 0  0. 036  1436. 9
  20. 0  -1. 75  -1. 75  31. 88  25. 67  232. 8  0. 048  1437. 0
  25. 0  -1. 75  -1. 75  31. 91  25. 70  230. 1  0. 059  1437. 1
  30. 0  -1. 75  -1. 75  31. 95  25. 72  227. 5  0. 071  1437. 3
  35. 0  -1. 75  -1. 75  31. 99  25. 76  224. 3  0. 082  1437. 4
  40. 0  -1. 76  -1. 76  32. 07  25. 82  217. 9  0. 094  1437. 6
  45. 0  -1. 76  -1. 76  32. 24  25. 96  205. 2  0. 104  1437. 9
  50. 0  -1. 75  -1. 75  32. 48  26. 16  186. 1  0. 114  1438. 4
  55. 0  -1. 72  -1. 72  32. 62  26. 27  175. 3  0. 123  1438. 8
  60. 0  -1. 79  -1. 79  32. 70  26. 34  168. 9  0. 132  1438. 6
  65. 0  -1. 78  -1. 78  32. 74  26. 37  165. 9  0. 140  1438. 8
  70. 0  -1. 77  -1. 77  32. 81  26. 43  160. 5  0. 148  1439. 1
  80. 0  -1. 59  -1. 59  33. 07  26. 63  141. 3  0. 164  1440. 4
  90. 0  -1. 60  -1. 61  33. 32  26. 83  121. 8  0. 177  1440. 9
 100. 0  -1. 50  -1. 51  33. 63  27. 08   98. 2  0. 188  1442. 0
 110. 0  -1. 45  -1. 46  33. 93  27. 32   75. 9  0. 197  1442. 8
 120. 0  -1. 46  -1. 46  34. 07  27. 44   64. 5  0. 204  1443. 1
 130. 0  -1. 38  -1. 39  34. 19  27. 53   55. 6  0. 210  1443. 8
 140. 0  -1. 22  -1. 23  34. 28  27. 60   49. 3  0. 215  1444. 8
 150. 0  -1. 03  -1. 03  34. 36  27. 66   43. 9  0. 220  1446. 0
 160. 0  -0. 99  -1. 00  34. 42  27. 70   39. 7  0. 224  1446. 4
 170. 0  -0. 89  -0. 90  34. 46  27. 73   37. 1  0. 228  1447. 1
 180. 0  -0. 70  -0. 70  34. 51  27. 76   34. 0  0. 232  1448. 3
 190. 0  -0. 56  -0. 56  34. 56  27. 79   31. 0  0. 235  1449. 2
 200. 0  -0. 48  -0. 49  34. 59  27. 82   28. 8  0. 238  1449. 7
 210. 0  -0. 34  -0. 35  34. 63  27. 84   26. 4  0. 241  1450. 6
 220. 0  -0. 21  -0. 21  34. 67  27. 87   24. 2  0. 243  1451. 4
 230. 0  -0. 08  -0. 09  34. 70  27. 89   22. 4  0. 246  1452. 2
 240. 0   0. 07   0. 06  34. 74  27. 91   20. 4  0. 248  1453. 1
 250. 0   0. 20   0. 19  34. 77  27. 93   18. 4  0. 250  1453. 9
 260. 0   0. 30   0. 29  34. 81  27. 95   16. 5  0. 252  1454. 6
 270. 0   0. 33   0. 31  34. 81  27. 95   16. 6  0. 253  1454. 9
 280. 0   0. 38   0. 37  34. 82  27. 96   15. 6  0. 255  1455. 3
 290. 0   0. 48   0. 47  34. 84  27. 97   14. 7  0. 256  1456. 0
 300. 0   0. 50   0. 49  34. 86  27. 98   13. 9  0. 258  1456. 2
 310. 0   0. 54   0. 53  34. 86  27. 98   13. 8  0. 259  1456. 6
 320. 0   0. 58   0. 56  34. 87  27. 99   13. 1  0. 261  1456. 9
 330. 0   0. 57   0. 56  34. 87  27. 99   13. 1  0. 262  1457. 1
 340. 0   0. 61   0. 59  34. 88  28. 00   12. 8  0. 263  1457. 4
 350. 0   0. 63   0. 61  34. 89  28. 00   12. 3  0. 264  1457. 7
 370. 0   0. 69   0. 67  34. 89  28. 00   12. 4  0. 267  1458. 3
 390. 0   0. 69   0. 67  34. 90  28. 00   12. 2  0. 269  1458. 6
 410. 0   0. 62   0. 60  34. 89  28. 00   12. 2  0. 272  1458. 7
 430. 0   0. 61   0. 59  34. 90  28. 01   11. 3  0. 274  1458. 9
 450. 0   0. 59   0. 57  34. 90  28. 01   11. 5  0. 277  1459. 2
 470. 0   0. 58   0. 56  34. 91  28. 02   10. 7  0. 279  1459. 5
 490. 0   0. 51   0. 48  34. 91  28. 02   10. 2  0. 281  1459. 5
 510. 0   0. 46   0. 44  34. 91  28. 03    9. 5  0. 283  1459. 6
 530. 0   0. 39   0. 37  34. 91  28. 03    9. 7  0. 285  1459. 6
 550. 0   0. 33   0. 30  34. 91  28. 04    9. 0  0. 287  1459. 7
 570. 0   0. 30   0. 27  34. 91  28. 03    9. 0  0. 289  1459. 9
 590. 0   0. 25   0. 22  34. 91  28. 04    8. 4  0. 290  1460. 0
 610. 0   0. 19   0. 16  34. 91  28. 04    8. 1  0. 292  1460. 0
 630. 0   0. 16   0. 13  34. 91  28. 04    8. 0  0. 294  1460. 3
 650. 0   0. 12   0. 10  34. 91  28. 05    7. 5  0. 295  1460. 4
 670. 0   0. 12   0. 09  34. 92  28. 05    7. 0  0. 297  1460. 7
 690. 0   0. 07   0. 04  34. 91  28. 05    7. 3  0. 298  1460. 8

                         DEPTH       TEMP.       SALIN

        BOT NUM = 1        3. 6      -1. 74      31. 77
        BOT NUM = 2       27. 5      -1. 76      31. 91
        BOT NUM = 3      385. 4       0. 72      34. 89
        BOT NUM = 4      700. 5       0. 05      34. 90
```

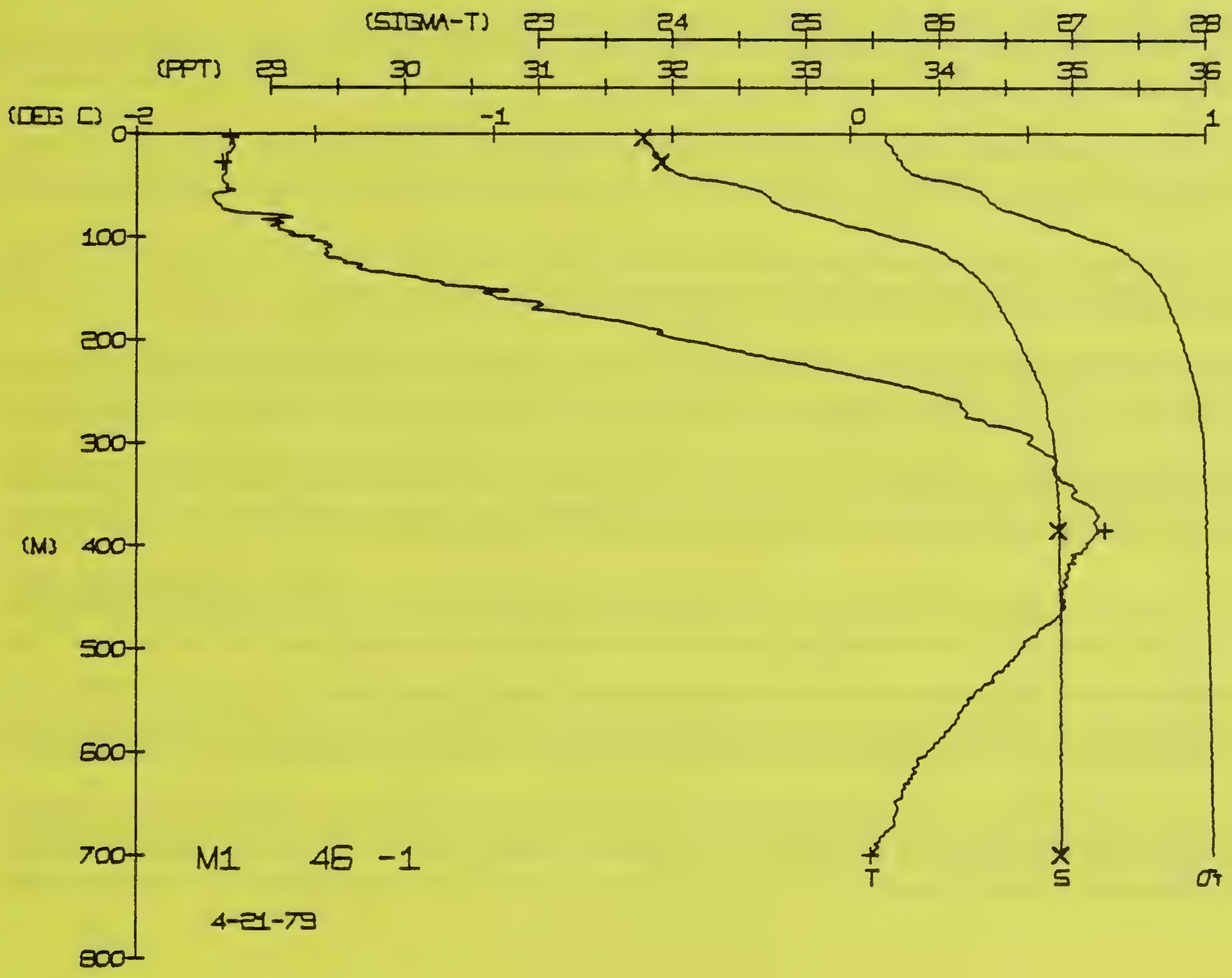
```
 FRAM 1  STATION  47(1) CTD  22/APR/1979  710 GMT  CODE = 1
LAT = 84. 3267N LNG =    8. 3374W LTER =      0. LGER =      0.
AIR TEMP  = -26. 6 BAROM = 1031. 1 WIND = 246. 0 SPEED =    2. 6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  31. 87  25. 66  233. 7  0. 000  1436. 7
   3. 1  -1. 74  -1. 74  31. 87  25. 66  233. 7  0. 007  1436. 8
   5. 0  -1. 74  -1. 74  31. 88  25. 67  233. 3  0. 012  1436. 8
  10. 0  -1. 74  -1. 74  31. 89  25. 68  232. 1  0. 023  1436. 9
  15. 0  -1. 74  -1. 74  31. 89  25. 68  231. 9  0. 035  1437. 0
  20. 0  -1. 74  -1. 74  31. 90  25. 69  231. 1  0. 047  1437. 1
  25. 0  -1. 74  -1. 74  31. 92  25. 70  230. 0  0. 058  1437. 2
  30. 0  -1. 75  -1. 75  31. 98  25. 75  224. 9  0. 070  1437. 3
  35. 0  -1. 75  -1. 75  32. 04  25. 80  220. 1  0. 081  1437. 5
  40. 0  -1. 75  -1. 75  32. 17  25. 90  210. 5  0. 092  1437. 7
  45. 0  -1. 74  -1. 74  32. 32  26. 02  198. 9  0. 102  1438. 1
  50. 0  -1. 74  -1. 74  32. 52  26. 18  183. 6  0. 112  1438. 4
  55. 0  -1. 74  -1. 74  32. 58  26. 23  179. 0  0. 121  1438. 6
  60. 0  -1. 74  -1. 74  32. 67  26. 31  172. 0  0. 130  1438. 8
  65. 0  -1. 74  -1. 74  32. 76  26. 39  164. 4  0. 138  1439. 0
  70. 0  -1. 70  -1. 71  32. 85  26. 45  158. 0  0. 146  1439. 4
  80. 0  -1. 64  -1. 64  33. 12  26. 67  137. 6  0. 161  1440. 3
  90. 0  -1. 61  -1. 61  33. 43  26. 92  113. 8  0. 174  1441. 0
 100. 0  -1. 50  -1. 50  33. 68  27. 12   94. 4  0. 185  1442. 0
 110. 0  -1. 48  -1. 48  33. 92  27. 31   76. 5  0. 193  1442. 6
 120. 0  -1. 43  -1. 43  34. 09  27. 45   63. 0  0. 200  1443. 3
 130. 0  -1. 36  -1. 36  34. 21  27. 54   54. 7  0. 206  1443. 9
 140. 0  -1. 26  -1. 26  34. 27  27. 59   49. 8  0. 211  1444. 7
 150. 0  -1. 11  -1. 11  34. 35  27. 65   44. 3  0. 216  1445. 7
 160. 0  -0. 96  -0. 97  34. 42  27. 70   39. 6  0. 220  1446. 6
 170. 0  -0. 84  -0. 85  34. 47  27. 74   36. 2  0. 224  1447. 4
 180. 0  -0  68  -0. 69  34. 52  27. 77   33. 2  0. 228  1448. 4
 190. 0  -0. 53  -0. 53  34. 56  27. 80   30. 5  0. 231  1449. 3
 200. 0  -0. 42  -0. 43  34. 60  27. 82   28. 5  0. 234  1450. 0
 210. 0  -0. 29  -0. 30  34. 63  27. 84   26. 6  0. 237  1450. 8
 220. 0  -0. 15  -0. 16  34. 67  27. 87   23. 9  0. 239  1451. 7
 230. 0  -0. 04  -0. 05  34. 70  27. 89   22. 3  0. 242  1452. 4
 240. 0   0. 10   0. 09  34. 74  27. 91   20. 2  0. 244  1453. 3
 250. 0   0. 23   0. 22  34. 77  27. 93   18. 7  0. 246  1454. 1
 260. 0   0. 30   0. 29  34. 79  27. 94   17. 4  0. 247  1454. 6
 270. 0   0. 34   0. 33  34. 81  27. 95   16. 7  0. 249  1455. 0
 280. 0   0. 43   0. 41  34. 83  27. 97   15. 5  0. 251  1455. 5
 290. 0   0. 49   0. 48  34. 85  27. 98   14. 4  0. 252  1456. 0
 300. 0   0. 51   0. 50  34. 85  27. 98   14. 3  0. 254  1456. 3
 310. 0   0. 54   0. 52  34. 86  27. 98   14. 1  0. 255  1456. 6
 320. 0   0. 56   0. 55  34. 87  27. 99   13. 6  0. 257  1456. 9
 330. 0   0. 58   0. 57  34. 87  27. 99   13. 8  0. 258  1457. 1
 340. 0   0. 61   0. 60  34. 87  27. 99   13. 5  0. 259  1457. 4
 350. 0   0. 63   0. 61  34. 88  27. 99   13. 1  0. 261  1457. 7
 370. 0   0. 66   0. 64  34. 89  28. 00   12. 6  0. 263  1458. 2
 390. 0   0. 66   0. 64  34. 89  28. 00   12. 4  0. 266  1458. 5
 410. 0   0. 62   0. 60  34. 89  28. 00   12. 4  0. 268  1458. 6
 430. 0   0. 60   0. 58  34. 90  28. 01   11. 8  0. 271  1458. 9
 450. 0   0. 56   0. 54  34. 90  28. 01   11. 3  0. 273  1459. 0
 470. 0   0. 52   0. 49  34. 90  28. 02   11. 1  0. 275  1459. 2
 490. 0   0. 47   0. 45  34. 90  28. 02   10. 7  0. 278  1459. 3
 510. 0   0. 41   0. 39  34. 91  28. 03    9. 6  0. 280  1459. 4
 530. 0   0. 36   0. 34  34. 91  28. 03    9. 5  0. 282  1459. 5
 550. 0   0. 32   0. 29  34. 91  28. 03    9. 2  0. 283  1459. 6
 570. 0   0. 28   0. 25  34. 91  28. 04    8. 8  0. 285  1459. 8
 590. 0   0. 24   0. 22  34. 91  28. 04    8. 6  0. 287  1459. 9
 610. 0   0. 21   0. 18  34. 91  28. 04    8. 3  0. 289  1460. 1
 630. 0   0. 17   0. 14  34. 90  28. 04    8. 4  0. 290  1460. 3
 650. 0   0. 13   0. 11  34. 91  28. 05    7. 7  0. 292  1460. 5
 670. 0   0. 10   0. 07  34. 91  28. 05    7. 5  0. 294  1460. 7
 690. 0   0. 07   0. 04  34. 91  28. 05    7. 4  0. 295  1460. 9
 699. 1   0. 06   0. 02  34. 92  28. 06    6. 7  0. 296  1460. 9

                         DEPTH       TEMP.       SALIN

        BOT NUM = 1        3. 6                  31. 87
        BOT NUM = 2       21. 8      -1. 75      31. 90
        BOT NUM = 3      385. 4       0. 68      34. 88
        BOT NUM = 4      698. 2       0. 05      34. 91
```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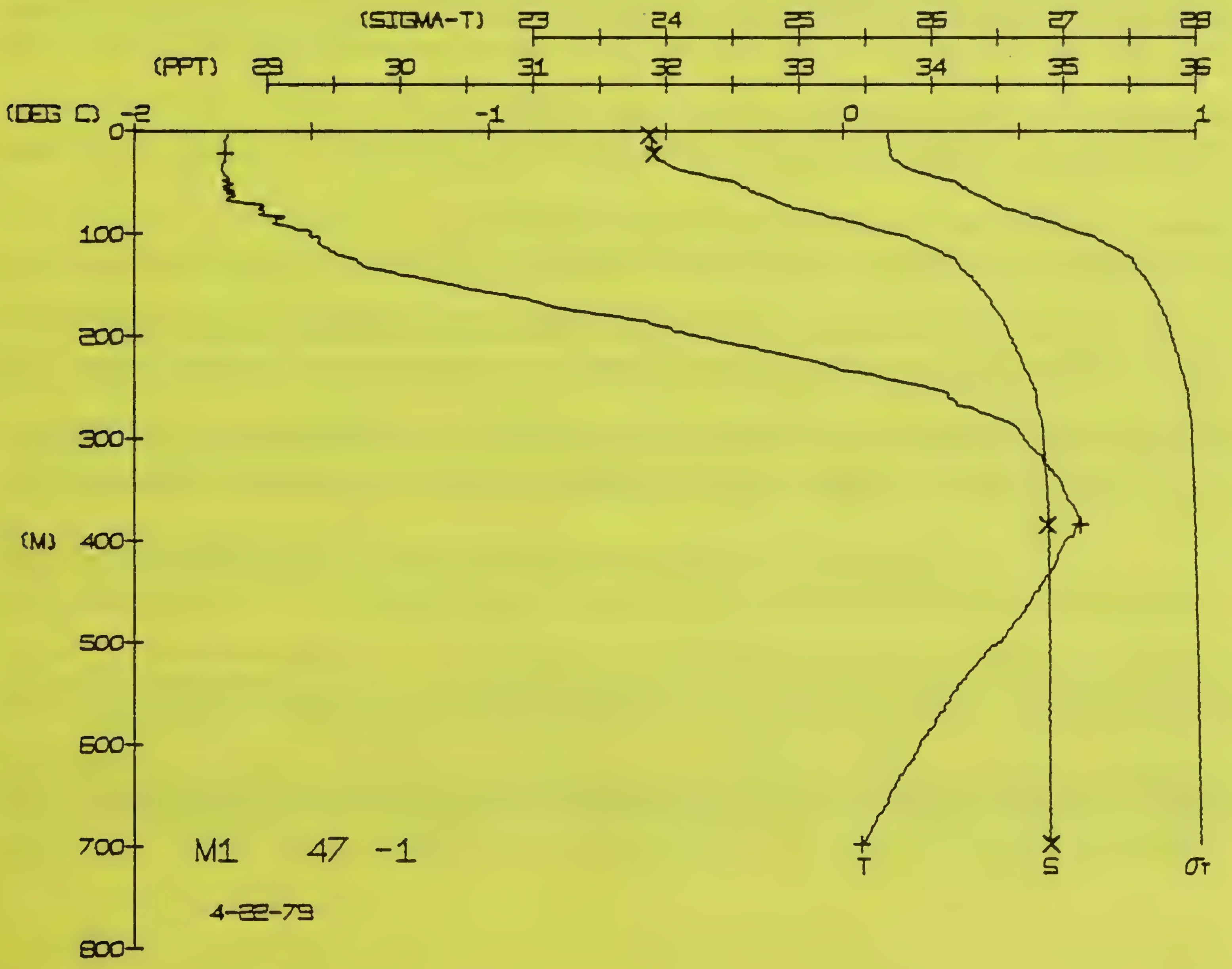
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
M1 47 -1
4-22-79
T
S
σT

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 FRAM 1  STATION  48(1) CTD  22/APR/1979 1842 GMT  CODE = 1
LAT = 84.3166N LNG =   8.2522W LTER =     32. LGER =     59.
AIR TEMP = -26.6 BAROM = 1013.8 WIND = 246.0 SPEED =    2.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   31.91   25.69   231.0   0.000   1436.8
   3.0   -1.74   -1.74   31.91   25.69   231.0   0.007   1436.8
   5.0   -1.74   -1.74   31.91   25.69   230.7   0.012   1436.8
  10.0   -1.74   -1.74   31.90   25.69   231.3   0.023   1436.9
  15.0   -1.74   -1.74   31.90   25.69   231.0   0.035   1437.0
  20.0   -1.74   -1.74   31.91   25.70   230.3   0.047   1437.1
  25.0   -1.74   -1.74   31.92   25.70   229.8   0.058   1437.2
  30.0   -1.75   -1.75   32.00   25.77   223.2   0.069   1437.3
  35.0   -1.75   -1.75   32.02   25.79   221.5   0.081   1437.4
  40.0   -1.75   -1.75   32.21   25.94   207.1   0.091   1437.8
  45.0   -1.75   -1.75   32.43   26.12   190.1   0.101   1438.2
  50.0   -1.73   -1.73   32.54   26.20   182.0   0.111   1438.5
  55.0   -1.71   -1.71   32.62   26.27   175.7   0.120   1438.8
  60.0   -1.72   -1.72   32.70   26.33   169.8   0.129   1438.9
  65.0   -1.65   -1.65   32.77   26.38   164.5   0.137   1439.5
  70.0   -1.63   -1.63   32.89   26.49   154.8   0.145   1439.8
  80.0   -1.61   -1.62   33.18   26.72   133.1   0.160   1440.5
  90.0   -1.61   -1.61   33.45   26.94   111.6   0.172   1441.0
 100.0   -1.48   -1.48   33.73   27.16    91.0   0.182   1442.2
 110.0   -1.47   -1.48   33.94   27.33    74.5   0.190   1442.7
 120.0   -1.43   -1.43   34.10   27.46    62.2   0.197   1443.3
 130.0   -1.34   -1.34   34.22   27.55    53.9   0.203   1444.1
 140.0   -1.19   -1.20   34.31   27.62    47.2   0.208   1445.0
 150.0   -1.10   -1.10   34.37   27.66    43.3   0.213   1445.7
 160.0   -0.96   -0.96   34.42   27.70    39.5   0.217   1446.6
 170.0   -0.79   -0.80   34.48   27.75    35.5   0.221   1447.6
 180.0   -0.59   -0.60   34.54   27.79    31.7   0.224   1448.8
 190.0   -0.51   -0.51   34.57   27.81    29.9   0.227   1449.4
 200.0   -0.40   -0.41   34.61   27.83    27.8   0.230   1450.1
 210.0   -0.30   -0.31   34.64   27.85    26.0   0.233   1450.8
 220.0   -0.14   -0.15   34.68   27.87    23.9   0.235   1451.7
 230.0    0.00   -0.01   34.71   27.90    21.6   0.238   1452.6
 240.0    0.11    0.10   34.74   27.91    20.0   0.240   1453.3
 250.0    0.25    0.24   34.78   27.94    17.8   0.242   1454.1
 260.0    0.31    0.30   34.80   27.95    17.2   0.244   1454.6
 270.0    0.35    0.34   34.81   27.95    16.8   0.245   1455.0
 280.0    0.44    0.43   34.84   27.97    14.8   0.247   1455.6
 290.0    0.49    0.48   34.85   27.98    14.6   0.248   1456.0
 300.0    0.54    0.52   34.86   27.99    13.7   0.250   1456.4
 310.0    0.56    0.55   34.86   27.98    14.2   0.251   1456.7
 320.0    0.57    0.56   34.86   27.98    14.0   0.253   1456.9
 330.0    0.59    0.57   34.87   27.99    13.6   0.254   1457.2
 340.0    0.61    0.60   34.88   27.99    13.3   0.255   1457.4
 350.0    0.62    0.60   34.88   28.00    12.9   0.257   1457.6
 370.0    0.68    0.66   34.89   28.00    12.5   0.259   1458.2
 390.0    0.65    0.63   34.90   28.01    11.8   0.262   1458.5
 410.0    0.62    0.61   34.89   28.00    12.2   0.264   1458.7
 430.0    0.60    0.58   34.89   28.01    11.9   0.267   1458.9
 450.0    0.56    0.54   34.90   28.02    11.1   0.269   1459.1
 470.0    0.53    0.51   34.91   28.02    10.6   0.271   1459.2
 490.0    0.48    0.46   34.91   28.03    10.1   0.273   1459.4
 510.0    0.42    0.39   34.91   28.03     9.8   0.275   1459.4
 530.0    0.39    0.36   34.91   28.03     9.5   0.277   1459.6
 550.0    0.34    0.31   34.90   28.03     9.6   0.279   1459.7
 570.0    0.27    0.25   34.91   28.04     9.0   0.281   1459.8
 590.0    0.24    0.22   34.91   28.04     8.3   0.283   1460.0
 610.0    0.21    0.18   34.91   28.04     8.2   0.284   1460.1
 630.0    0.16    0.14   34.91   28.04     8.0   0.286   1460.3
 650.0    0.12    0.09   34.91   28.05     7.7   0.288   1460.4
 670.0    0.09    0.06   34.92   28.05     7.0   0.289   1460.6
 690.0    0.06    0.03   34.91   28.05     7.2   0.290   1460.8
 701.0    0.05    0.02   34.92   28.06     6.7   0.291   1460.9

                        DEPTH       TEMP.       SALIN

       BOT NUM = 1        3.6                   31.90
       BOT NUM = 2       23.9       -1.72       31.91
       BOT NUM = 3      384.7        0.68       34.88
       BOT NUM = 4      701.0        0.05       34.90
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 FRAM 1  STATION  49(1) CTD  23/APR/1979  705 GMT  CODE = 1
LAT = 84.3167N LNG =   8.2307W LTER =      4. LGER =     12.
AIR TEMP = -26.0 BAROM = 1015.5 WIND = 105.0 SPEED =    2.4

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   31.88   25.67   233.0   0.000   1436.7
   3.0   -1.74   -1.74   31.88   25.67   233.0   0.007   1436.8
   5.0   -1.74   -1.74   31.88   25.67   233.0   0.012   1436.8
  10.0   -1.74   -1.74   31.88   25.67   232.8   0.023   1436.9
  15.0   -1.74   -1.74   31.89   25.68   231.8   0.035   1437.0
  20.0   -1.74   -1.74   31.89   25.68   231.8   0.047   1437.1
  25.0   -1.74   -1.74   31.90   25.68   231.4   0.058   1437.2
  30.0   -1.74   -1.74   31.90   25.68   231.5   0.070   1437.2
  35.0   -1.74   -1.74   32.17   25.91   210.0   0.081   1437.7
  40.0   -1.73   -1.73   32.39   26.08   193.2   0.091   1438.1
  45.0   -1.71   -1.71   32.50   26.17   185.0   0.101   1438.5
  50.0   -1.72   -1.72   32.59   26.24   178.2   0.110   1438.6
  55.0   -1.73   -1.73   32.66   26.30   172.2   0.119   1438.8
  60.0   -1.74   -1.74   32.71   26.34   169.4   0.127   1438.9
  65.0   -1.74   -1.74   32.76   26.38   165.1   0.136   1439.0
  70.0   -1.67   -1.67   32.81   26.42   160.7   0.144   1439.5
  80.0   -1.58   -1.58   33.11   26.66   138.0   0.159   1440.5
  90.0   -1.55   -1.55   33.44   26.93   113.0   0.172   1441.3
 100.0   -1.50   -1.50   33.69   27.13    94.1   0.182   1442.1
 110.0   -1.49   -1.49   33.93   27.33    75.0   0.191   1442.6
 120.0   -1.42   -1.42   34.12   27.47    61.2   0.198   1443.4
 130.0   -1.33   -1.34   34.21   27.54    54.5   0.203   1444.1
 140.0   -1.19   -1.19   34.29   27.61    48.6   0.209   1445.0
 150.0   -1.09   -1.09   34.35   27.65    44.7   0.213   1445.7
 160.0   -0.94   -0.94   34.41   27.69    40.4   0.218   1446.7
 170.0   -0.83   -0.84   34.45   27.72    37.8   0.222   1447.4
 180.0   -0.66   -0.67   34.51   27.76    33.8   0.225   1448.4
 190.0   -0.51   -0.51   34.56   27.79    31.2   0.229   1449.4
 200.0   -0.37   -0.38   34.59   27.82    29.1   0.232   1450.2
 210.0   -0.30   -0.30   34.63   27.84    26.8   0.234   1450.8
 220.0   -0.16   -0.17   34.66   27.86    24.7   0.237   1451.6
 230.0    0.01    0.00   34.72   27.90    21.5   0.239   1452.7
 240.0    0.15    0.14   34.75   27.92    19.8   0.241   1453.5
 250.0    0.27    0.26   34.78   27.93    18.5   0.243   1454.2
 260.0    0.31    0.30   34.79   27.94    17.6   0.245   1454.6
 270.0    0.39    0.38   34.81   27.95    16.8   0.247   1455.2
 280.0    0.46    0.44   34.82   27.96    16.2   0.249   1455.7
 290.0    0.51    0.49   34.84   27.97    15.2   0.250   1456.1
 300.0    0.54    0.53   34.84   27.97    15.1   0.252   1456.4
 310.0    0.56    0.55   34.85   27.97    15.0   0.253   1456.7
 320.0    0.57    0.56   34.85   27.97    14.8   0.255   1456.9
 330.0    0.59    0.57   34.86   27.98    14.7   0.256   1457.1
 340.0    0.62    0.60   34.86   27.98    14.6   0.258   1457.4
 350.0    0.63    0.61   34.86   27.98    14.7   0.259   1457.6
 370.0    0.67    0.66   34.88   27.99    13.6   0.262   1458.2
 390.0    0.65    0.63   34.89   28.00    12.3   0.265   1458.5
 410.0    0.62    0.60   34.90   28.01    11.9   0.267   1458.6
 430.0    0.60    0.58   34.90   28.01    11.4   0.269   1458.9
 450.0    0.56    0.54   34.90   28.01    11.4   0.272   1459.1
 470.0    0.54    0.52   34.90   28.02    10.9   0.274   1459.3
 490.0    0.49    0.46   34.90   28.02    10.5   0.276   1459.4
 510.0    0.43    0.41   34.91   28.03     9.8   0.278   1459.5
 530.0    0.39    0.36   34.91   28.03     9.6   0.280   1459.6
 550.0    0.32    0.30   34.91   28.03     9.3   0.282   1459.6
 570.0    0.28    0.25   34.91   28.04     9.0   0.284   1459.8
 590.0    0.24    0.22   34.91   28.04     8.5   0.286   1460.0
 610.0    0.19    0.16   34.91   28.04     8.0   0.287   1460.0
 630.0    0.15    0.13   34.90   28.04     8.4   0.289   1460.2
 650.0    0.12    0.09   34.91   28.05     7.5   0.291   1460.4
 670.0    0.09    0.06   34.91   28.05     7.3   0.292   1460.6
 690.0    0.05    0.02   34.91   28.05     6.9   0.294   1460.8
 699.8    0.04    0.01   34.92   28.06     6.4   0.294   1460.9

                        DEPTH       TEMP.       SALIN

       BOT NUM = 1        3.6                   31.87
       BOT NUM = 2       21.9       -1.71       31.90
       BOT NUM = 3      386.3        0.68       34.88
       BOT NUM = 4      700.0        0.04       34.90
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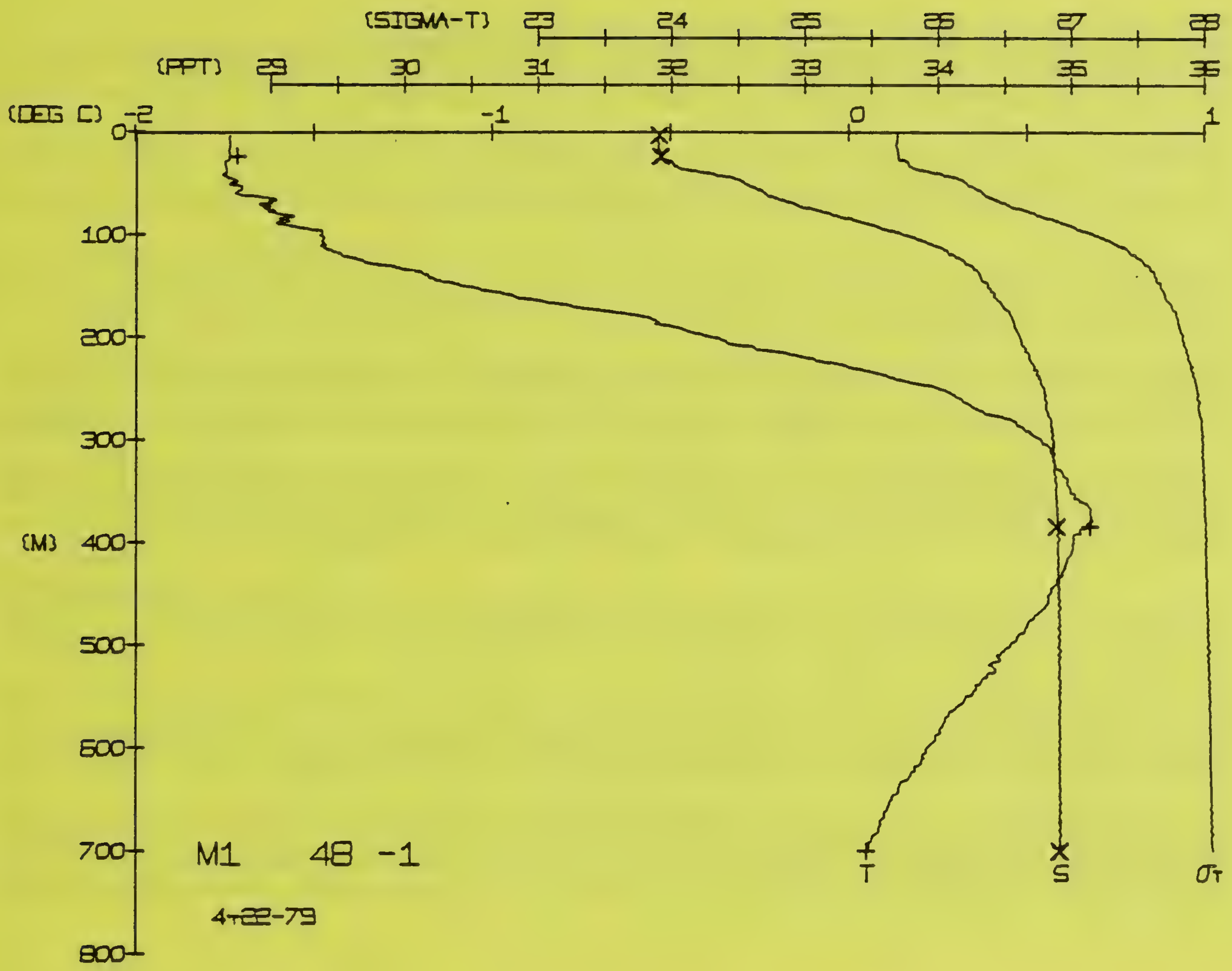

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(M) 0 100 200 300 400 500 600 700 800
T
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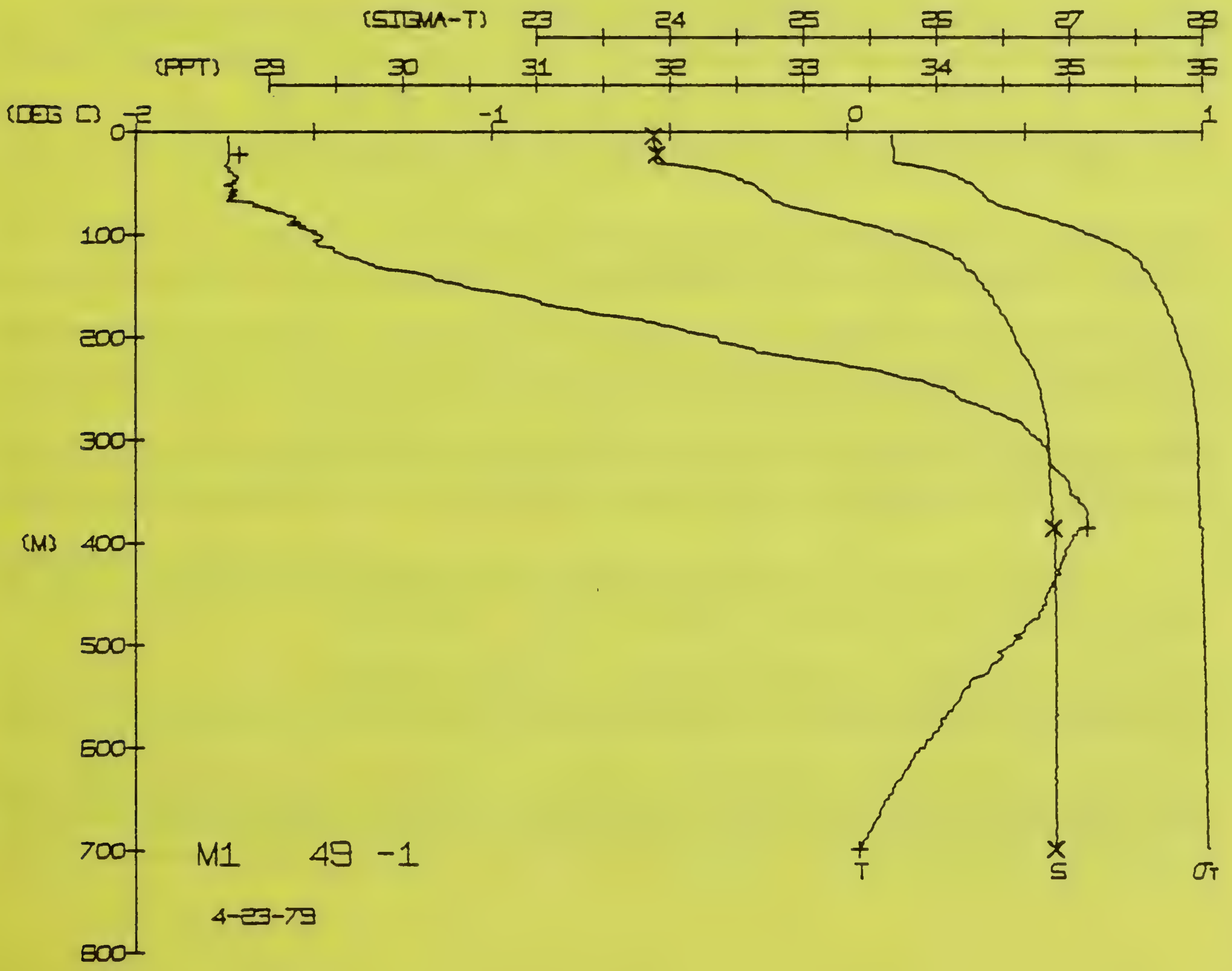
σT
M1 48 -1
4-22-79



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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
T
S
σT
M1 49 -1
4-23-79

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LAT = 84. 3131N LNG =    8. 1776W LTER =    4.  LGER =    11.
AIR TEMP = -26. 0 BAROM = 1018. 9 WIND = 105. 0 SPEED =    2. 4

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  31. 88  25. 67  232. 7  0. 000  1436. 7
   3. 0  -1. 74  -1. 74  31. 88  25. 67  232. 7  0. 007  1436. 8
   5. 0  -1. 74  -1. 74  31. 88  25. 67  232. 6  0. 012  1436. 8
  10. 0  -1. 74  -1. 74  31. 88  25. 67  233. 0  0. 023  1436. 9
  15. 0  -1. 74  -1. 74  31. 89  25. 67  232. 5  0. 035  1437. 0
  20. 0  -1. 74  -1. 74  31. 89  25. 67  232. 4  0. 047  1437. 1
  25. 0  -1. 74  -1. 74  31. 90  25. 68  231. 3  0. 059  1437. 2
  30. 0  -1. 74  -1. 74  31. 93  25. 71  229. 1  0. 070  1437. 3
  35. 0  -1. 75  -1. 75  32. 23  25. 95  205. 7  0. 081  1437. 7
  40. 0  -1. 76  -1. 76  32. 47  26. 15  187. 2  0. 091  1438. 1
  45. 0  -1. 75  -1. 75  32. 57  26. 23  179. 8  0. 100  1438. 4
  50. 0  -1. 77  -1. 77  32. 67  26. 31  172. 0  0. 109  1438. 5
  55. 0  -1. 77  -1. 77  32. 73  26. 36  167. 3  0. 118  1438. 7
  60. 0  -1. 78  -1. 78  32. 77  26. 39  164. 3  0. 126  1438. 8
  65. 0  -1. 77  -1. 77  32. 82  26. 43  160. 5  0. 134  1439. 0
  70. 0  -1. 75  -1. 76  32. 86  26. 46  157. 2  0. 142  1439. 2
  80. 0  -1. 65  -1. 66  33. 09  26. 65  139. 3  0. 157  1440. 1
  90. 0  -1. 57  -1. 57  33. 44  26. 93  113. 1  0. 170  1441. 2
 100. 0  -1. 51  -1. 51  33. 71  27. 15   92. 1  0. 180  1442. 0
 110. 0  -1. 48  -1. 49  33. 92  27. 31   76. 3  0. 189  1442. 6
 120. 0  -1. 44  -1. 44  34. 09  27. 45   63. 5  0. 196  1443. 2
 130. 0  -1. 31  -1. 32  34. 23  27. 56   52. 8  0. 202  1444. 2
 140. 0  -1. 22  -1. 22  34. 30  27. 61   48. 1  0. 207  1444. 9
 150. 0  -1. 07  -1. 07  34. 37  27. 66   43. 3  0. 211  1445. 8
 160. 0  -0. 96  -0. 96  34. 41  27. 70   40. 0  0. 215  1446. 6
 170. 0  -0. 79  -0. 80  34. 48  27. 74   35. 6  0. 219  1447. 6
 180. 0  -0. 66  -0. 67  34. 53  27. 78   32. 8  0. 223  1448. 5
 190. 0  -0. 45  -0. 45  34. 59  27. 82   29. 1  0. 226  1449. 7
 200. 0  -0. 36  -0. 36  34. 61  27. 83   27. 4  0. 229  1450. 3
 210. 0  -0. 25  -0. 26  34. 65  27. 85   25. 5  0. 231  1451. 0
 220. 0  -0. 12  -0. 13  34. 67  27. 87   24. 0  0. 234  1451. 8
 230. 0   0. 00  -0. 01  34. 71  27. 89   22. 0  0. 236  1452. 6
 240. 0   0. 14   0. 13  34. 75  27. 92   19. 9  0. 238  1453. 4
 250. 0   0. 28   0. 27  34. 79  27. 94   17. 9  0. 240  1454. 3
 260. 0   0. 31   0. 30  34. 79  27. 94   17. 4  0. 242  1454. 6
 270. 0   0. 36   0. 35  34. 81  27. 96   16. 4  0. 244  1455. 0
 280. 0   0. 45   0. 43  34. 83  27. 97   15. 4  0. 245  1455. 6
 290. 0   0. 50   0. 49  34. 85  27. 98   14. 4  0. 247  1456. 1
 300. 0   0. 54   0. 53  34. 86  27. 98   14. 2  0. 248  1456. 4
 310. 0   0. 57   0. 56  34. 86  27. 98   14. 5  0. 250  1456. 7
 320. 0   0. 58   0. 57  34. 86  27. 98   14. 2  0. 251  1456. 9
 330. 0   0. 61   0. 60  34. 87  27. 99   13. 6  0. 253  1457. 3
 340. 0   0. 62   0. 60  34. 88  27. 99   13. 3  0. 254  1457. 5
 350. 0   0. 63   0. 61  34. 88  27. 99   13. 2  0. 255  1457. 7
 370. 0   0. 68   0. 67  34. 89  28. 00   12. 6  0. 258  1458. 3
 390. 0   0. 65   0. 63  34. 89  28. 00   12. 3  0. 260  1458. 5
 410. 0   0. 61   0. 59  34. 89  28. 01   11. 9  0. 263  1458. 6
 430. 0   0. 58   0. 56  34. 89  28. 01   11. 8  0. 265  1458. 8
 450. 0   0. 55   0. 53  34. 90  28. 01   11. 3  0. 268  1459. 0
 470. 0   0. 52   0. 50  34. 90  28. 02   10. 7  0. 270  1459. 2
 490. 0   0. 48   0. 45  34. 90  28. 02   10. 4  0. 272  1459. 3
 510. 0   0. 41   0. 39  34. 90  28. 02   10. 1  0. 274  1459. 4
 530. 0   0. 37   0. 35  34. 91  28. 03    9. 4  0. 276  1459. 5
 550. 0   0. 31   0. 29  34. 90  28. 03    9. 3  0. 278  1459. 6
 570. 0   0. 28   0. 25  34. 91  28. 04    9. 0  0. 280  1459. 8
 590. 0   0. 23   0. 20  34. 90  28. 03    9. 0  0. 282  1459. 9
 610. 0   0. 18   0. 16  34. 90  28. 04    8. 5  0. 283  1460. 0
 630. 0   0. 14   0. 11  34. 91  28. 04    7. 9  0. 285  1460. 2
 650. 0   0. 11   0. 08  34. 91  28. 04    7. 8  0. 287  1460. 4
 670. 0   0. 08   0. 05  34. 90  28. 05    7. 7  0. 288  1460. 5
 690. 0   0. 05   0. 02  34. 91  28. 05    7. 4  0. 290  1460. 8

                         DEPTH       TEMP.       SALIN

     BOT NUM = 1          3. 6                   31. 88
     BOT NUM = 2         26. 9                   31. 92
     BOT NUM = 3         26. 9      -1. 75       31. 91
     BOT NUM = 4        385. 6       0. 67       34. 88
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 FRAM 1  STATION  51(1) CTD  24/APR/1979  714 GMT  CODE = 1
LAT = 84. 3076N LNG =    8. 1380W LTER =      0.  LGER =      0.
AIR TEMP = -25. 8 BAROM = 1021. 5 WIND =  51. 0 SPEED =    1. 6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  31. 93  25. 71  229. 0  0. 000  1436. 8
   3. 0  -1. 74  -1. 74  31. 93  25. 71  228. 9  0. 007  1436. 8
   5. 0  -1. 74  -1. 74  31. 94  25. 72  228. 4  0. 012  1436. 9
  10. 0  -1. 74  -1. 74  31. 93  25. 71  228. 7  0. 023  1437. 0
  15. 0  -1. 74  -1. 74  31. 94  25. 72  228. 0  0. 035  1437. 0
  20. 0  -1. 74  -1. 74  31. 94  25. 72  228. 0  0. 046  1437. 1
  25. 0  -1. 74  -1. 74  31. 96  25. 73  226. 8  0. 057  1437. 2
  30. 0  -1. 74  -1. 74  32. 01  25. 77  223. 1  0. 069  1437. 4
  35. 0  -1. 75  -1. 75  32. 36  26. 06  195. 8  0. 079  1437. 9
  40. 0  -1. 76  -1. 76  32. 47  26. 14  187. 6  0. 089  1438. 1
  45. 0  -1. 75  -1. 76  32. 59  26. 24  178. 4  0. 098  1438. 4
  50. 0  -1. 76  -1. 76  32. 66  26. 30  172. 3  0. 107  1438. 5
  55. 0  -1. 76  -1. 76  32. 69  26. 32  170. 3  0. 116  1438. 7
  60. 0  -1. 76  -1. 76  32. 75  26. 38  165. 2  0. 124  1438. 8
  65. 0  -1. 77  -1. 77  32. 79  26. 41  162. 5  0. 132  1438. 9
  70. 0  -1. 74  -1. 74  32. 84  26. 45  158. 4  0. 140  1439. 2
  80. 0  -1. 66  -1. 67  33. 06  26. 62  142. 1  0. 156  1440. 0
  90. 0  -1. 60  -1. 60  33. 33  26. 84  121. 6  0. 169  1440. 9
 100. 0  -1. 53  -1. 53  33. 73  27. 16   91. 0  0. 180  1441. 9
 110. 0  -1. 48  -1. 49  33. 91  27. 31   76. 8  0. 188  1442. 6
 120. 0  -1. 44  -1. 44  34. 07  27. 44   64. 5  0. 195  1443. 2
 130. 0  -1. 35  -1. 35  34. 20  27. 54   55. 3  0. 201  1444. 0
 140. 0  -1. 22  -1. 22  34. 29  27. 60   48. 8  0. 206  1444. 9
 150. 0  -1. 09  -1. 09  34. 37  27. 66   43. 2  0. 211  1445. 8
 160. 0  -0. 96  -0. 97  34. 42  27. 70   37. 9  0. 215  1446. 6
 170. 0  -0. 82  -0. 83  34. 46  27. 73   36. 7  0. 219  1447. 5
 180. 0  -0. 69  -0. 69  34. 52  27. 77   33. 4  0. 223  1448. 3
 190. 0  -0. 51  -0. 52  34. 56  27. 80   30. 7  0. 226  1449. 4
 200. 0  -0. 44  -0. 45  34. 60  27. 82   28. 2  0. 229  1449. 9
 210. 0  -0. 25  -0. 26  34. 64  27. 85   25. 6  0. 232  1451. 0
 220. 0  -0. 12  -0. 12  34. 68  27. 88   23. 5  0. 234  1451. 9
 230. 0   0. 00  -0. 01  34. 71  27. 89   21. 8  0. 236  1452. 6
 240. 0   0. 14   0. 13  34. 75  27. 92   19. 6  0. 239  1453. 5
 250. 0   0. 27   0. 26  34. 78  27. 94   18. 2  0. 240  1454. 3
 260. 0   0. 31   0. 30  34. 79  27. 94   17. 7  0. 242  1454. 6
 270. 0   0. 35   0. 34  34. 81  27. 95   16. 7  0. 244  1455. 0
 280. 0   0. 42   0. 41  34. 82  27. 96   16. 3  0. 246  1455. 5
 290. 0   0. 50   0. 49  34. 85  27. 97   14. 7  0. 247  1456. 0
 300. 0   0. 52   0. 51  34. 84  27. 97   15. 0  0. 249  1456. 3
 310. 0   0. 56   0. 54  34. 85  27. 98   14. 4  0. 250  1456. 7
 320. 0   0. 57   0. 56  34. 85  27. 98   14. 6  0. 252  1456. 9
 330. 0   0. 59   0. 57  34. 87  27. 99   13. 7  0. 253  1457. 1
 340. 0   0. 62   0. 60  34. 87  27. 99   13. 7  0. 254  1457. 4
 350. 0   0. 63   0. 61  34. 88  27. 99   13. 4  0. 256  1457. 7
 370. 0   0. 68   0. 66  34. 89  28. 00   12. 4  0. 258  1458. 3
 390. 0   0. 66   0. 64  34. 88  27. 99   13. 6  0. 261  1458. 5
 410. 0   0. 62   0. 60  34. 87  27. 99   13. 5  0. 264  1458. 6
 430. 0   0. 59   0. 57  34. 87  27. 99   13. 3  0. 267  1458. 8
 450. 0   0. 57   0. 54  34. 89  28. 00   12. 1  0. 269  1459. 1
 470. 0   0. 52   0. 50  34. 88  28. 00   12. 2  0. 272  1459. 2
 490. 0   0. 47   0. 45  34. 89  28. 01   11. 4  0. 274  1459. 3
 510. 0   0. 41   0. 39  34. 88  28. 01   11. 4  0. 276  1459. 4
 530. 0   0. 36   0. 33  34. 88  28. 01   11. 3  0. 279  1459. 4
 550. 0   0. 30   0. 28  34. 89  28. 02   10. 3  0. 281  1459. 5
 570. 0   0. 25   0. 23  34. 88  28. 02   10. 5  0. 283  1459. 6
 590. 0   0. 21   0. 19  34. 89  28. 02   10. 1  0. 285  1459. 8
 610. 0   0. 18   0. 15  34. 89  28. 03    9. 7  0. 287  1460. 0
 630. 0   0. 16   0. 13  34. 89  28. 03    9. 5  0. 289  1460. 2
 650. 0   0. 12   0. 10  34. 88  28. 03    9. 7  0. 291  1460. 4
 670. 0   0. 09   0. 06  34. 89  28. 03    9. 0  0. 293  1460. 6
 690. 0   0. 06   0. 03  34. 91  28. 05    7. 1  0. 294  1460. 8

                         DEPTH       TEMP.       SALIN

     BOT NUM = 1          3. 7
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     BOT NUM = 3        386. 8       0. 68       34. 88
     BOT NUM = 4        698. 0       0. 04       34. 90
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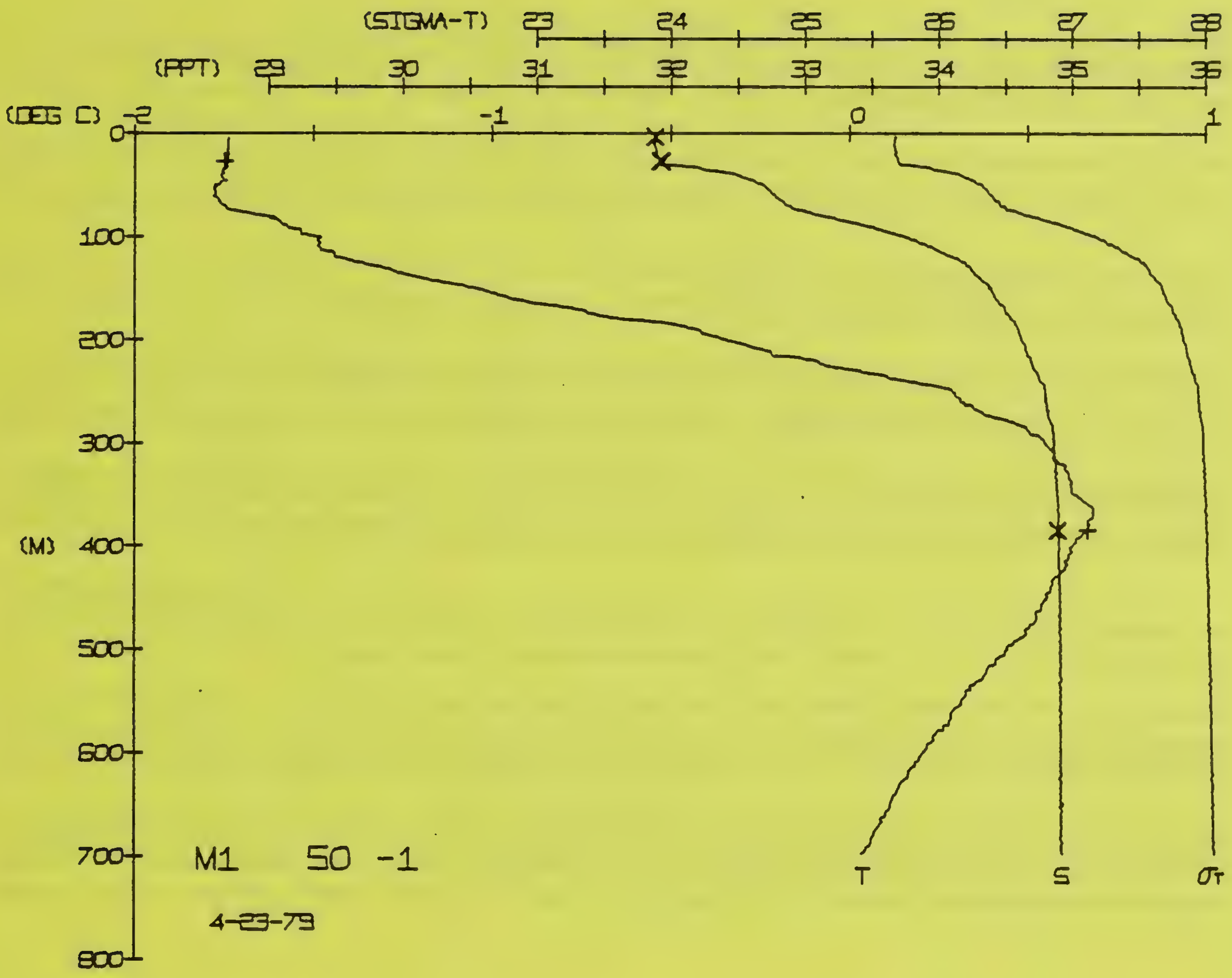
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(M) 400
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4-23-79
T
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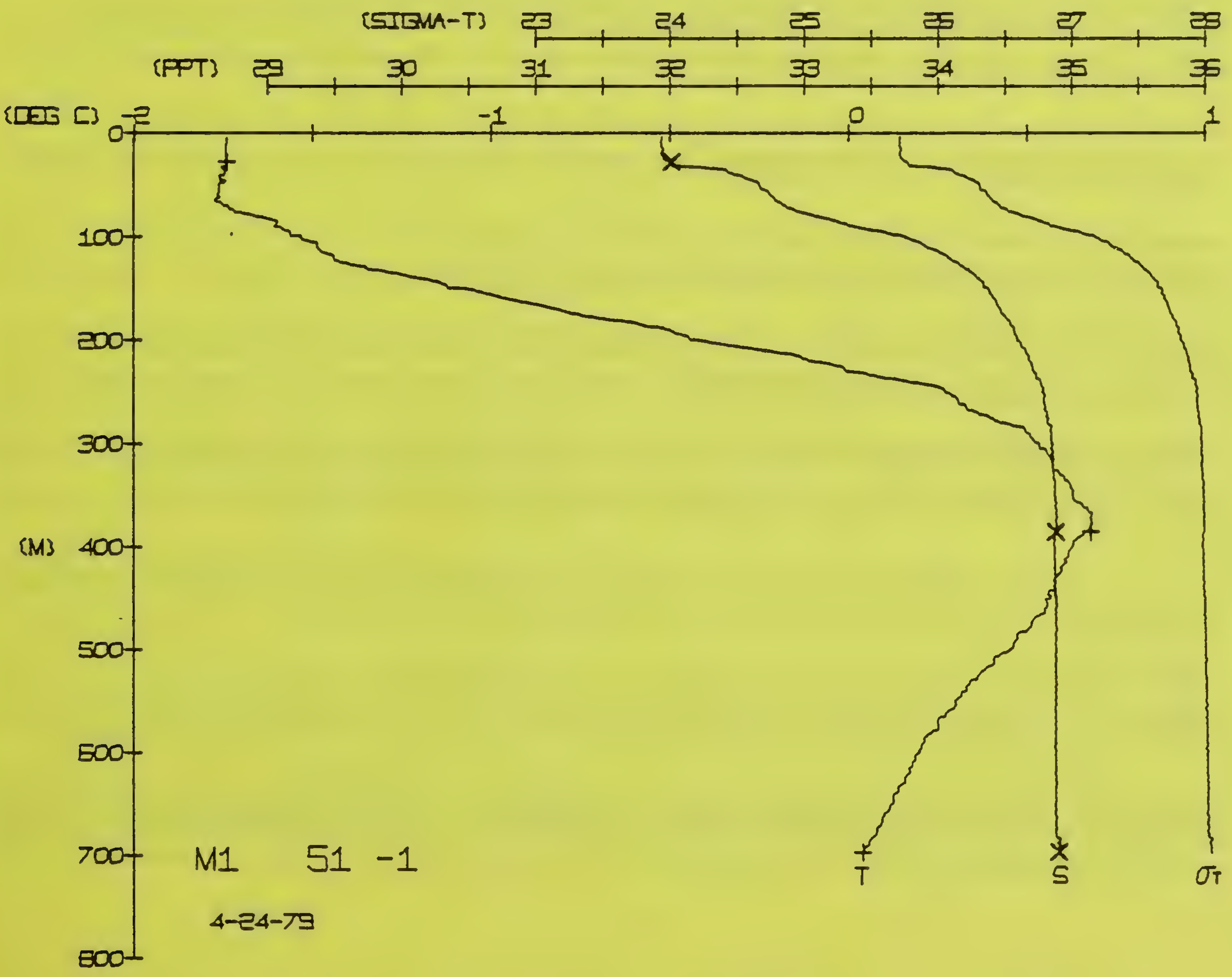
σT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4-24-79
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σT

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LAT = 84.3024N LNG =   8.0877W LTER =      1. LGER =      2.
AIR TEMP = -25.8 BAROM = 1021.5 WIND =  51.0 SPEED =    1.6

 DEPTH   TEMP   PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0.0  -1.73  -1.73  31.88  25.67  232.7  0.000  1436.8
   3.1  -1.73  -1.73  31.88  25.67  232.7  0.007  1436.8
   5.0  -1.74  -1.74  31.91  25.69  231.0  0.012  1436.8
  10.0  -1.74  -1.74  31.93  25.71  229.1  0.023  1436.9
  15.0  -1.74  -1.74  31.96  25.73  227.0  0.035  1437.1
  20.0  -1.74  -1.74  31.97  25.74  225.9  0.046  1437.2
  25.0  -1.74  -1.74  32.01  25.77  223.1  0.057  1437.3
  30.0  -1.76  -1.76  32.22  25.95  206.4  0.068  1437.6
  35.0  -1.77  -1.77  32.41  26.10  191.5  0.078  1437.9
  40.0  -1.75  -1.75  32.48  26.16  186.1  0.088  1438.2
  45.0  -1.75  -1.75  32.56  26.22  180.3  0.097  1438.4
  50.0  -1.76  -1.76  32.63  26.28  174.7  0.106  1438.5
  55.0  -1.78  -1.79  32.69  26.33  170.0  0.115  1438.6
  60.0  -1.79  -1.79  32.73  26.36  167.0  0.123  1438.7
  65.0  -1.79  -1.79  32.74  26.37  165.9  0.132  1438.8
  70.0  -1.77  -1.77  32.78  26.40  163.1  0.140  1439.0
  80.0  -1.73  -1.74  32.91  26.50  153.0  0.156  1439.5
  90.0  -1.66  -1.66  33.29  26.81  124.2  0.170  1440.6
 100.0  -1.55  -1.56  33.64  27.09   97.2  0.181  1441.7
 110.0  -1.50  -1.50  33.89  27.29   78.3  0.190  1442.5
 120.0  -1.44  -1.44  34.05  27.42   66.1  0.197  1443.2
 130.0  -1.33  -1.33  34.20  27.53   55.4  0.203  1444.1
 140.0  -1.21  -1.21  34.27  27.59   49.9  0.208  1444.9
 150.0  -1.09  -1.09  34.34  27.64   45.0  0.213  1445.7
 160.0  -0.99  -0.99  34.39  27.68   41.9  0.218  1446.4
 170.0  -0.83  -0.84  34.45  27.72   37.6  0.222  1447.4
 180.0  -0.67  -0.68  34.51  27.76   34.2  0.225  1448.4
 190.0  -0.53  -0.54  34.55  27.79   31.6  0.229  1449.3
 200.0  -0.42  -0.42  34.58  27.81   29.5  0.232  1450.0
 210.0  -0.21  -0.22  34.64  27.85   26.2  0.235  1451.2
 220.0  -0.13  -0.14  34.66  27.86   24.8  0.237  1451.8
 230.0  -0.03  -0.04  34.69  27.88   23.6  0.240  1452.4
 240.0   0.16   0.15  34.74  27.91   20.6  0.242  1453.5
 250.0   0.22   0.21  34.76  27.92   19.8  0.244  1454.0
 260.0   0.30   0.29  34.78  27.93   18.6  0.246  1454.5
 270.0   0.33   0.32  34.79  27.94   18.0  0.248  1454.9
 280.0   0.41   0.39  34.81  27.95   17.1  0.249  1455.4
 290.0   0.49   0.48  34.83  27.96   16.1  0.251  1456.0
 300.0   0.52   0.51  34.84  27.97   15.6  0.253  1456.3
 310.0   0.56   0.54  34.84  27.97   15.5  0.254  1456.6
 320.0   0.57   0.56  34.84  27.97   15.7  0.256  1456.9
 330.0   0.59   0.58  34.85  27.97   15.3  0.257  1457.1
 340.0   0.62   0.60  34.86  27.98   14.5  0.259  1457.4
 350.0   0.63   0.62  34.86  27.98   14.4  0.260  1457.7
 370.0   0.67   0.66  34.87  27.99   14.0  0.263  1458.2
 390.0   0.66   0.65  34.89  28.00   12.4  0.266  1458.5
 410.0   0.62   0.60  34.89  28.01   12.0  0.268  1458.6
 430.0   0.60   0.58  34.90  28.01   11.6  0.271  1458.9
 450.0   0.58   0.56  34.90  28.02   11.1  0.273  1459.1
 470.0   0.53   0.51  34.91  28.02   10.6  0.275  1459.3
 490.0   0.47   0.45  34.91  28.02   10.2  0.277  1459.3
 510.0   0.41   0.38  34.90  28.03    9.9  0.279  1459.4
 530.0   0.36   0.33  34.91  28.03    9.5  0.281  1459.5
 550.0   0.31   0.29  34.90  28.03    9.3  0.283  1459.6
 570.0   0.26   0.23  34.90  28.03    9.0  0.285  1459.7
 590.0   0.22   0.19  34.90  28.04    8.8  0.287  1459.8
 610.0   0.18   0.15  34.91  28.04    8.3  0.289  1460.0
 630.0   0.15   0.12  34.91  28.04    8.1  0.290  1460.2
 650.0   0.11   0.08  34.91  28.04    7.8  0.292  1460.4
 670.0   0.09   0.06  34.91  28.05    7.6  0.293  1460.6
 690.0   0.06   0.03  34.91  28.05    7.3  0.295  1460.8

                         DEPTH      TEMP.      SALIN

       BOT NUM = 1         3.4                 31.90
       BOT NUM = 2        26.6     -1.74       32.05
       BOT NUM = 3       385.2      0.69       34.88
       BOT NUM = 4       695.5      0.05       34.90
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```
 FRAM 1  STATION  53(1) CTD  25/APR/1979 1140 GMT  CODE = 1
LAT = 84.2922N LNG =   8.0162W LTER =      1. LGER =      2.
AIR TEMP = -21.9 BAROM = 1020.4 WIND = 125.0 SPEED =    1.2

 DEPTH   TEMP   PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0.0  -1.74  -1.74  32.00  25.76  223.9  0.000  1436.9
   3.1  -1.74  -1.74  32.00  25.76  223.9  0.007  1436.9
   5.0  -1.74  -1.74  32.00  25.77  223.5  0.011  1436.9
  10.0  -1.75  -1.75  32.03  25.79  221.2  0.022  1437.1
  15.0  -1.75  -1.75  32.16  25.89  211.5  0.033  1437.3
  20.0  -1.77  -1.77  32.42  26.11  191.4  0.043  1437.7
  25.0  -1.77  -1.77  32.46  26.14  187.9  0.053  1437.8
  30.0  -1.77  -1.77  32.47  26.15  187.0  0.062  1437.9
  35.0  -1.77  -1.77  32.48  26.16  186.5  0.072  1438.0
  40.0  -1.77  -1.77  32.49  26.17  185.6  0.081  1438.1
  45.0  -1.77  -1.77  32.49  26.16  185.9  0.091  1438.2
  50.0  -1.77  -1.77  32.49  26.16  185.9  0.100  1438.3
  55.0  -1.78  -1.78  32.51  26.18  183.9  0.109  1438.3
  60.0  -1.76  -1.76  32.59  26.25  177.5  0.118  1438.6
  65.0  -1.77  -1.77  32.73  26.36  167.1  0.127  1438.9
  70.0  -1.77  -1.77  32.78  26.40  163.4  0.135  1439.0
  80.0  -1.76  -1.77  32.88  26.48  155.0  0.151  1439.3
  90.0  -1.64  -1.65  33.28  26.80  125.2  0.166  1440.6
 100.0  -1.55  -1.55  33.63  27.08   98.2  0.177  1441.7
 110.0  -1.49  -1.49  33.89  27.29   78.2  0.186  1442.5
 120.0  -1.46  -1.47  34.06  27.43   65.5  0.193  1443.1
 130.0  -1.38  -1.38  34.17  27.52   57.1  0.199  1443.8
 140.0  -1.21  -1.22  34.29  27.61   48.7  0.205  1444.9
 150.0  -1.12  -1.12  34.34  27.65   44.8  0.209  1445.6
 160.0  -0.98  -0.98  34.41  27.69   40.6  0.214  1446.5
 170.0  -0.85  -0.85  34.46  27.73   36.6  0.217  1447.4
 180.0  -0.70  -0.71  34.51  27.77   33.7  0.221  1448.3
 190.0  -0.59  -0.60  34.55  27.79   31.3  0.224  1449.0
 200.0  -0.43  -0.43  34.60  27.82   28.4  0.227  1450.0
 210.0  -0.30  -0.31  34.63  27.85   26.2  0.230  1450.8
 220.0  -0.11  -0.12  34.69  27.88   23.3  0.233  1451.9
 230.0  -0.01  -0.02  34.71  27.89   21.8  0.235  1452.6
 240.0   0.11   0.10  34.74  27.91   20.0  0.237  1453.3
 250.0   0.25   0.24  34.78  27.94   17.9  0.239  1454.2
 260.0   0.30   0.29  34.80  27.95   17.1  0.241  1454.6
 270.0   0.33   0.32  34.80  27.95   17.1  0.242  1454.9
 280.0   0.42   0.40  34.83  27.97   15.5  0.244  1455.5
 290.0   0.49   0.48  34.85  27.98   14.5  0.245  1456.0
 300.0   0.53   0.52  34.86  27.98   14.1  0.247  1456.4
 310.0   0.57   0.55  34.86  27.98   14.2  0.248  1456.7
 320.0   0.57   0.56  34.86  27.98   14.0  0.250  1456.9
 330.0   0.58   0.56  34.86  27.98   14.1  0.251  1457.1
 340.0   0.61   0.59  34.87  27.99   13.5  0.253  1457.4
 350.0   0.64   0.63  34.88  27.99   13.0  0.254  1457.7
 370.0   0.69   0.67  34.89  28.00   12.5  0.257  1458.3
 390.0   0.69   0.67  34.90  28.00   12.4  0.259  1458.6
 410.0   0.64   0.62  34.90  28.01   12.1  0.261  1458.8
 430.0   0.61   0.59  34.90  28.01   11.6  0.264  1459.0
 450.0   0.58   0.56  34.90  28.01   11.2  0.266  1459.1
 470.0   0.54   0.52  34.90  28.02   11.0  0.268  1459.3
 490.0   0.46   0.44  34.90  28.02   10.4  0.271  1459.3
 510.0   0.40   0.37  34.90  28.03   10.0  0.273  1459.3
 530.0   0.35   0.32  34.90  28.03    9.6  0.275  1459.4
 550.0   0.30   0.27  34.90  28.03    9.3  0.277  1459.5
 570.0   0.27   0.25  34.90  28.03    9.0  0.278  1459.7
 590.0   0.23   0.20  34.91  28.04    8.7  0.280  1459.9
 610.0   0.19   0.17  34.90  28.04    8.5  0.282  1460.1
 630.0   0.15   0.12  34.90  28.04    8.2  0.284  1460.2
 650.0   0.11   0.09  34.91  28.04    7.9  0.285  1460.4
 670.0   0.08   0.05  34.91  28.05    7.7  0.287  1460.5
 690.0   0.05   0.02  34.91  28.05    7.2  0.288  1460.8

                         DEPTH      TEMP.      SALIN

       BOT NUM = 1         3.4     -1.72
       BOT NUM = 2        38.2     -1.78
       BOT NUM = 3       388.9      0.70
       BOT NUM = 4       699.0      0.04
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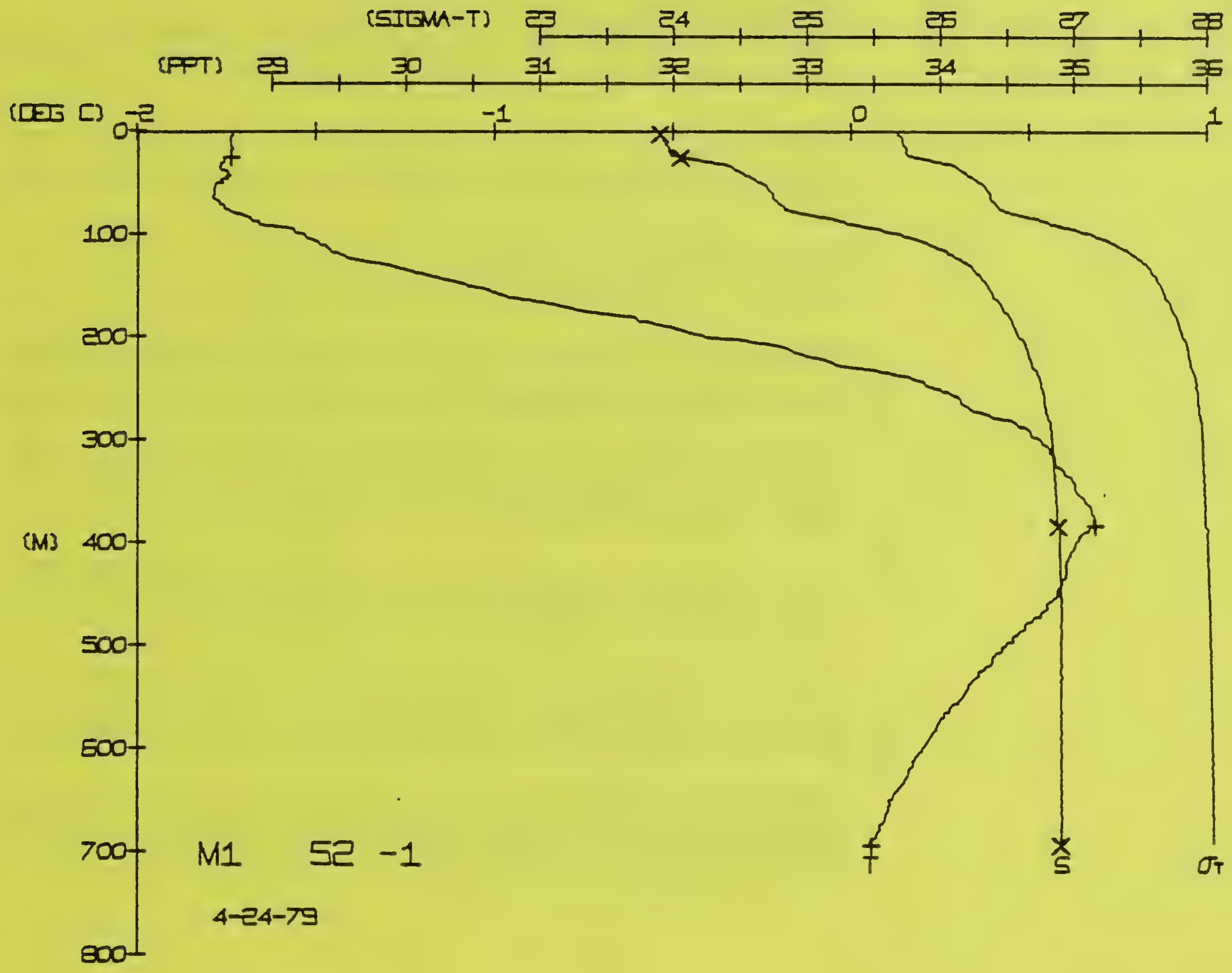

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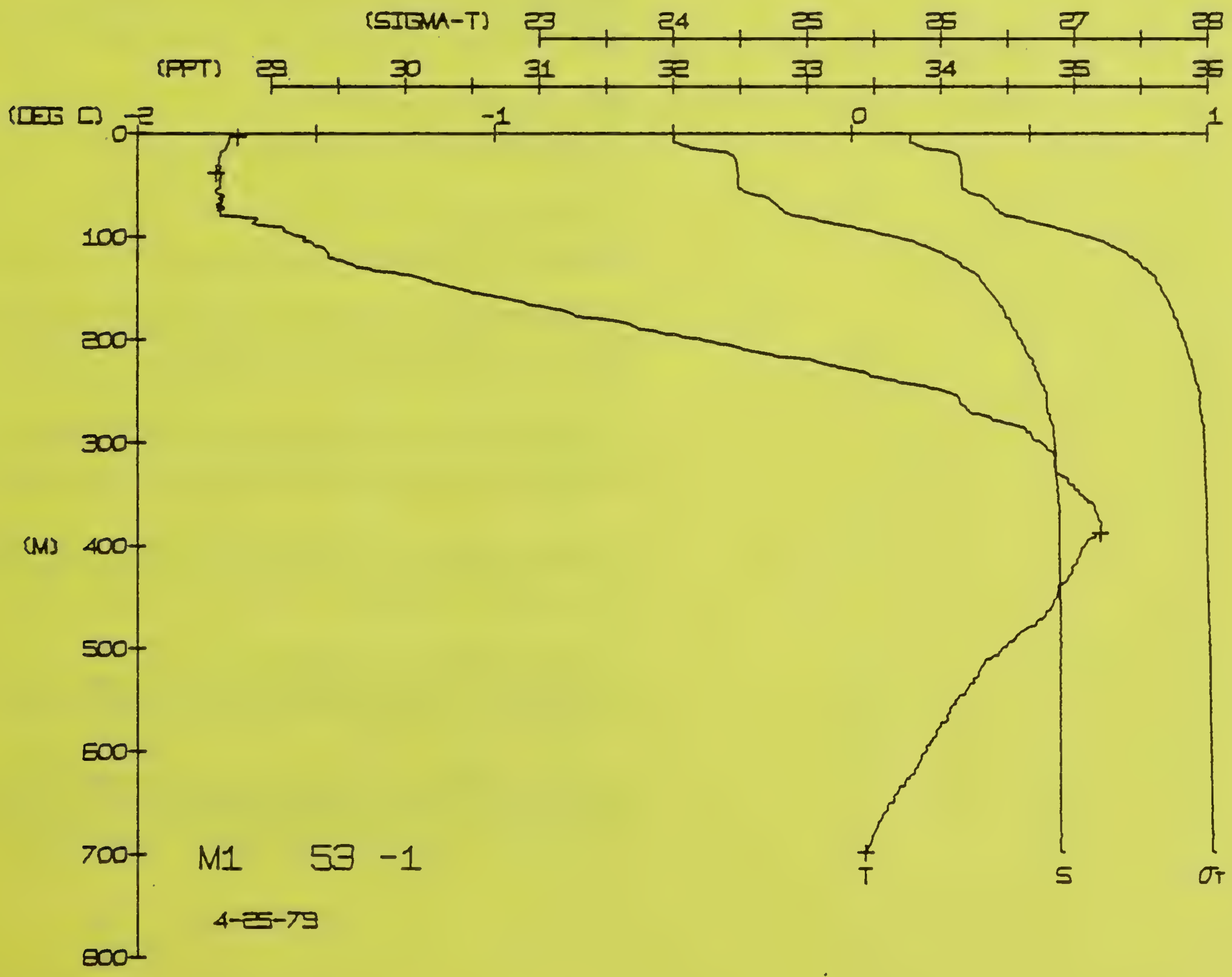
4-24-79



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4-25-79

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 FRAM 1  STATION  54(1) CTD  25/APR/1979 1316 GMT  CODE = 1
LAT = 84.2915N LNG =   8.0086W LTER =      1. LGER =     2.
AIR TEMP = -21.9 BAROM = 1020.4 WIND = 125.0 SPEED =   1.2

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   32.00   25.77   223.8   0.000   1436.9
   3.0   -1.74   -1.74   32.00   25.77   223.7   0.007   1436.9
   5.0   -1.74   -1.74   32.00   25.77   223.6   0.011   1437.0
  10.0   -1.74   -1.74   32.01   25.77   223.1   0.023   1437.0
  15.0   -1.75   -1.75   32.19   25.92   209.3   0.033   1437.3
  20.0   -1.77   -1.77   32.42   26.11   191.2   0.043   1437.7
  25.0   -1.77   -1.77   32.46   26.14   187.9   0.053   1437.8
  30.0   -1.77   -1.77   32.48   26.16   186.4   0.062   1437.9
  35.0   -1.77   -1.77   32.48   26.16   186.2   0.072   1438.0
  40.0   -1.77   -1.77   32.49   26.16   186.0   0.081   1438.1
  45.0   -1.77   -1.77   32.49   26.16   185.8   0.091   1438.2
  50.0   -1.78   -1.78   32.51   26.18   183.9   0.100   1438.3
  55.0   -1.78   -1.78   32.55   26.21   181.1   0.109   1438.4
  60.0   -1.76   -1.77   32.61   26.26   176.5   0.118   1438.6
  65.0   -1.77   -1.78   32.74   26.37   166.3   0.127   1438.8
  70.0   -1.77   -1.77   32.79   26.40   162.7   0.135   1439.0
  80.0   -1.75   -1.75   32.90   26.50   153.9   0.151   1439.4
  90.0   -1.65   -1.65   33.28   26.80   124.6   0.165   1440.6
 100.0   -1.54   -1.54   33.66   27.11    96.0   0.176   1441.8
 110.0   -1.48   -1.48   33.90   27.30    77.7   0.185   1442.6
 120.0   -1.44   -1.44   34.11   27.46    62.0   0.192   1443.2
 130.0   -1.38   -1.39   34.17   27.51    57.3   0.198   1443.8
 140.0   -1.26   -1.26   34.27   27.59    50.4   0.203   1444.7
 150.0   -1.12   -1.13   34.34   27.64    45.0   0.208   1445.6
 160.0   -0.99   -1.00   34.40   27.69    40.7   0.212   1446.4
 170.0   -0.85   -0.86   34.46   27.73    36.9   0.216   1447.3
 180.0   -0.72   -0.72   34.52   27.77    33.2   0.220   1448.2
 190.0   -0.56   -0.57   34.56   27.80    30.8   0.223   1449.1
 200.0   -0.44   -0.44   34.59   27.82    28.5   0.226   1449.9
 210.0   -0.29   -0.30   34.64   27.85    25.9   0.229   1450.8
 220.0   -0.18   -0.18   34.68   27.87    23.7   0.231   1451.6
 230.0   -0.03   -0.04   34.71   27.89    22.1   0.234   1452.4
 240.0    0.10    0.09   34.74   27.91    20.2   0.236   1453.3
 250.0    0.24    0.23   34.78   27.94    18.0   0.238   1454.1
 260.0    0.30    0.29   34.80   27.95    16.9   0.240   1454.6
 270.0    0.32    0.31   34.80   27.95    16.8   0.241   1454.8
 280.0    0.37    0.36   34.81   27.96    16.3   0.243   1455.3
 290.0    0.46    0.45   34.84   27.97    15.1   0.245   1455.9
 300.0    0.51    0.50   34.85   27.98    14.2   0.246   1456.3
 310.0    0.55    0.54   34.86   27.98    13.9   0.247   1456.6
 320.0    0.57    0.56   34.86   27.98    13.8   0.249   1456.9
 325.9    0.57    0.56   34.86   27.98    14.5   0.250   1457.0

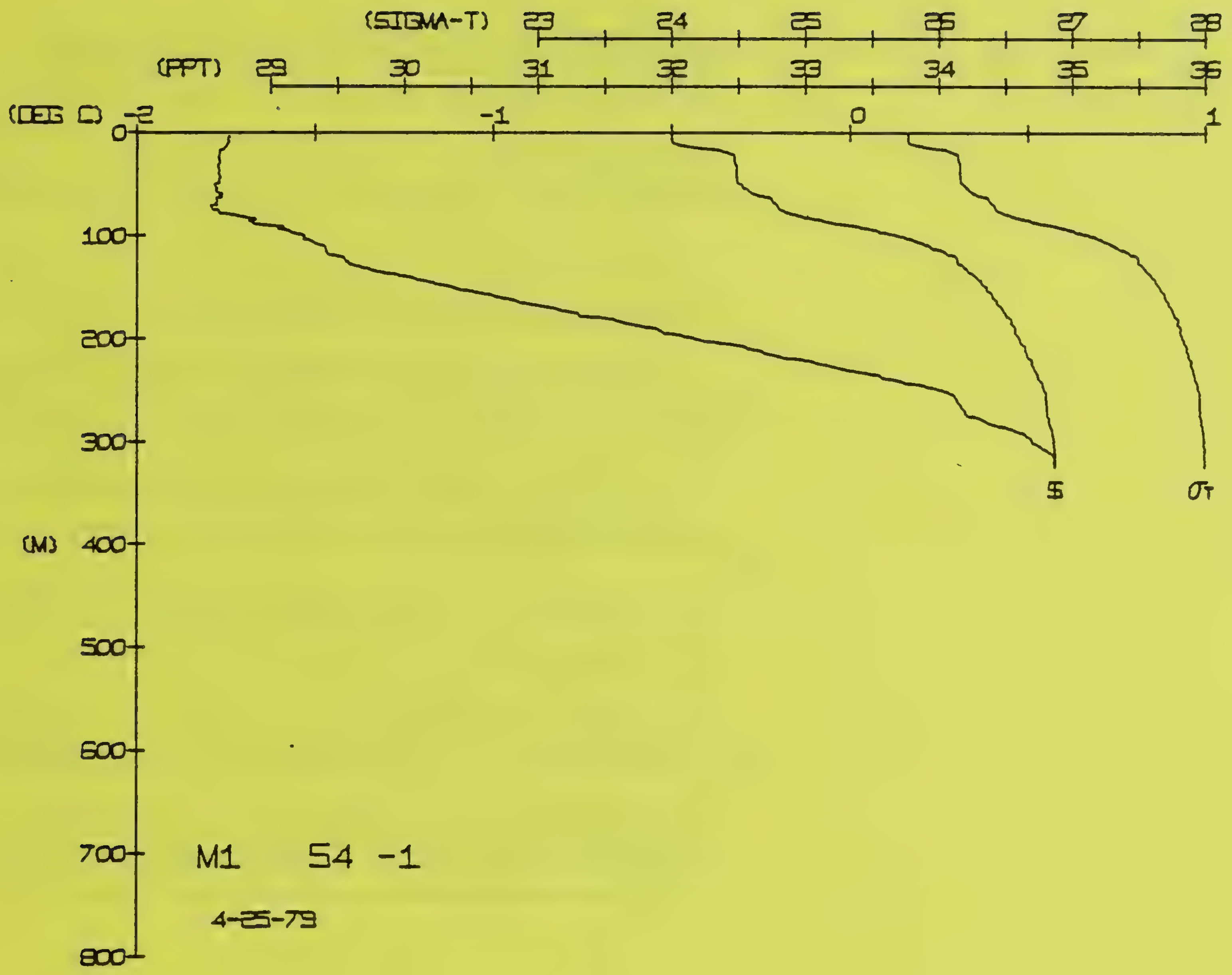
                         DEPTH       TEMP.       SALIN
```

```
 FRAM 1  STATION  55(1) CTD  25/APR/1979 1430 GMT  CODE = 1
LAT = 84.2926N LNG =   8.0118W LTER =      0. LGER =     0.
AIR TEMP = -22.0 BAROM = 1020.5 WIND = 124.0 SPEED =   0.9

DEPTH     TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   32.00   25.77   223.5   0.000   1436.9
   3.1   -1.74   -1.74   32.00   25.77   223.4   0.007   1436.9
   5.0   -1.74   -1.74   32.01   25.77   223.2   0.011   1437.0
  10.0   -1.74   -1.74   32.02   25.79   221.9   0.022   1437.1
  15.0   -1.76   -1.76   32.20   25.93   208.0   0.033   1437.3
  20.0   -1.77   -1.77   32.41   26.10   192.1   0.043   1437.7
  25.0   -1.77   -1.77   32.46   26.14   188.2   0.053   1437.8
  30.0   -1.77   -1.77   32.46   26.14   188.1   0.062   1437.9
  35.0   -1.78   -1.78   32.47   26.15   187.4   0.072   1437.9
  40.0   -1.77   -1.77   32.48   26.15   186.6   0.081   1438.1
  45.0   -1.77   -1.78   32.49   26.16   185.6   0.091   1438.1
  50.0   -1.78   -1.78   32.51   26.18   183.9   0.100   1438.2
  55.0   -1.77   -1.78   32.54   26.21   181.3   0.109   1438.4
  60.0   -1.77   -1.77   32.59   26.25   177.5   0.118   1438.5
  65.0   -1.76   -1.76   32.69   26.33   170.1   0.127   1438.8
  70.0   -1.78   -1.78   32.78   26.40   163.0   0.135   1438.9
  80.0   -1.73   -1.74   32.93   26.52   151.4   0.151   1439.5
  90.0   -1.66   -1.66   33.29   26.81   123.9   0.165   1440.6
 100.0   -1.54   -1.54   33.64   27.09    97.4   0.176   1441.8
 110.0   -1.50   -1.50   33.86   27.27    80.8   0.185   1442.5
 120.0   -1.46   -1.46   34.07   27.44    64.5   0.193   1443.1
 130.0   -1.38   -1.38   34.18   27.53    56.2   0.199   1443.8
 140.0   -1.23   -1.23   34.28   27.60    49.4   0.204   1444.8
 150.0   -1.12   -1.12   34.35   27.65    44.7   0.209   1445.6
 160.0   -0.98   -0.98   34.41   27.70    40.1   0.213   1446.5
 170.0   -0.86   -0.87   34.46   27.73    36.8   0.217   1447.3
 180.0   -0.72   -0.73   34.52   27.77    33.1   0.220   1448.2
 190.0   -0.56   -0.56   34.56   27.80    30.5   0.224   1449.2
 200.0   -0.44   -0.45   34.60   27.82    28.4   0.227   1449.9
 210.0   -0.28   -0.29   34.64   27.85    25.8   0.229   1450.9
 220.0   -0.19   -0.20   34.66   27.87    24.4   0.232   1451.5

                         DEPTH       TEMP.       SALIN
```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200
300
(M) 400
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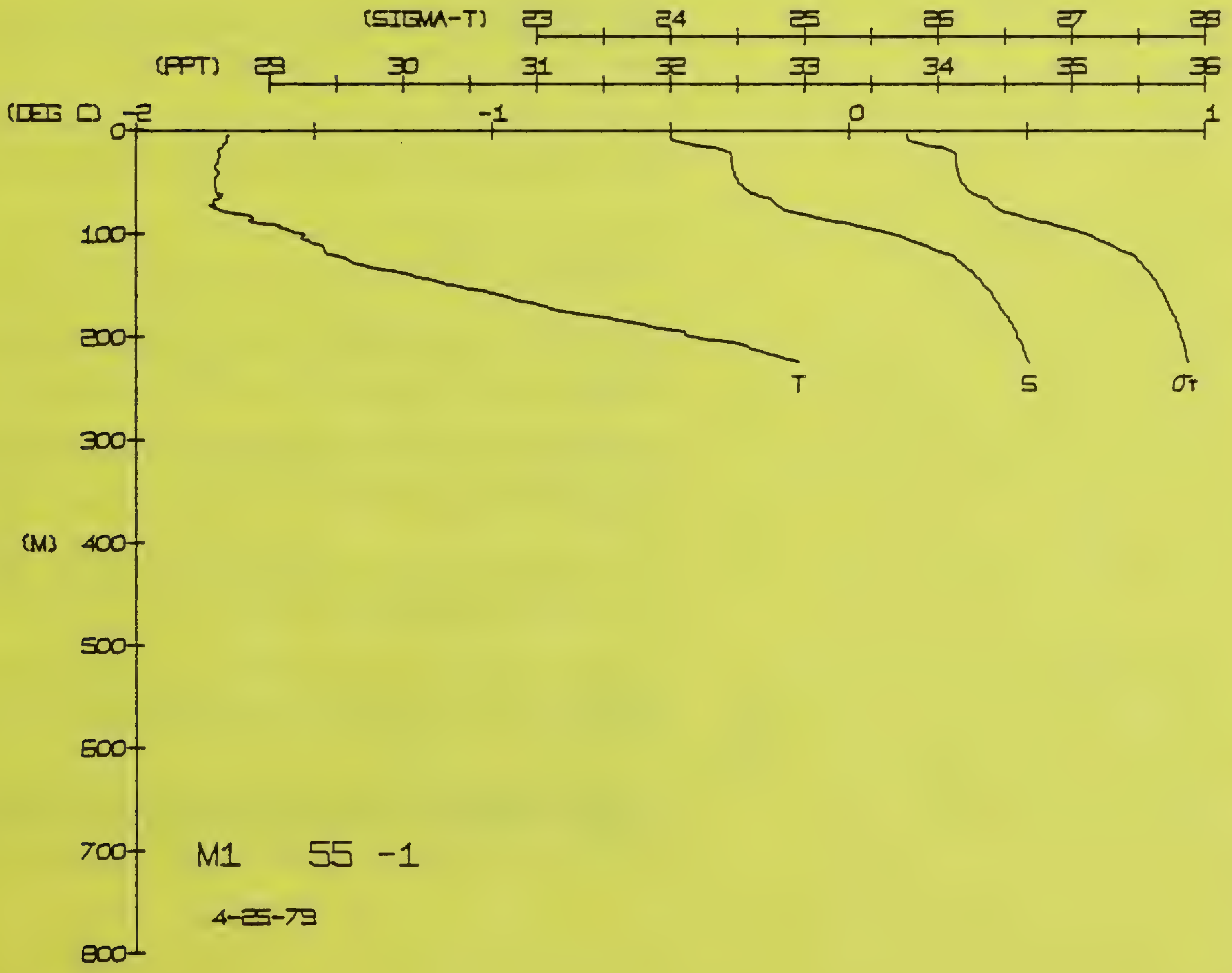
600
700
800
S
σT
M1 54 -1
4-25-79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500
600
700
800
T
S
σT
M1 55 -1
4-25-79

```
 FRAM 1  STATION  56(1) CTD  25/APR/1979 1605 GMT  CODE = 1
LAT = 84.2946N LNG =   8.0132W LTER =      13. LGER =    37.
AIR TEMP = -22.0 BAROM = 1020.5 WIND = 124.0 SPEED =   0.9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   32.01   25.77   223.0   0.000   1436.9
   3.0   -1.74   -1.74   32.01   25.77   223.0   0.007   1436.9
   5.0   -1.74   -1.74   32.01   25.77   223.1   0.011   1437.0
  10.0   -1.75   -1.75   32.04   25.80   220.5   0.022   1437.1
  15.0   -1.76   -1.76   32.28   25.99   201.9   0.033   1437.4
  20.0   -1.76   -1.76   32.40   26.09   193.0   0.043   1437.7
  25.0   -1.77   -1.77   32.45   26.13   189.0   0.053   1437.8
  30.0   -1.77   -1.77   32.46   26.14   187.9   0.062   1437.9
  35.0   -1.77   -1.77   32.47   26.14   187.6   0.072   1438.0
  40.0   -1.77   -1.77   32.47   26.15   187.2   0.081   1438.1
  45.0   -1.77   -1.77   32.49   26.16   185.9   0.090   1438.2
  50.0   -1.78   -1.78   32.52   26.19   183.0   0.100   1438.3
  55.0   -1.78   -1.78   32.55   26.21   180.7   0.109   1438.4
  60.0   -1.77   -1.77   32.63   26.28   174.9   0.118   1438.6
  65.0   -1.77   -1.77   32.72   26.35   167.6   0.126   1438.8
  70.0   -1.77   -1.78   32.78   26.40   162.8   0.135   1439.0
  80.0   -1.76   -1.76   32.91   26.50   153.3   0.151   1439.4
  90.0   -1.67   -1.67   33.23   26.76   128.6   0.165   1440.5
 100.0   -1.53   -1.53   33.65   27.10    96.5   0.176   1441.9
 110.0   -1.50   -1.50   33.87   27.27    80.0   0.185   1442.5
 120.0   -1.46   -1.47   34.05   27.42    65.9   0.192   1443.1
 130.0   -1.37   -1.38   34.19   27.53    55.6   0.199   1443.9
 140.0   -1.23   -1.24   34.28   27.60    49.5   0.204   1444.8
 150.0   -1.10   -1.10   34.35   27.65    44.1   0.209   1445.7
 160.0   -0.98   -0.99   34.41   27.69    40.3   0.213   1446.5
 170.0   -0.85   -0.86   34.46   27.73    36.8   0.217   1447.3
 180.0   -0.70   -0.71   34.52   27.77    33.2   0.220   1448.3
 190.0   -0.51   -0.52   34.58   27.81    29.6   0.223   1449.4
 200.0   -0.38   -0.39   34.61   27.83    27.4   0.226   1450.2
 210.0   -0.25   -0.26   34.65   27.86    25.2   0.229   1451.0
 220.0   -0.13   -0.14   34.68   27.88    23.4   0.231   1451.8
 230.0    0.01    0.00   34.72   27.90    21.2   0.234   1452.7
 240.0    0.13    0.12   34.74   27.91    20.1   0.236   1453.4
 250.0    0.22    0.21   34.77   27.93    18.3   0.238   1454.0
 260.0    0.30    0.29   34.80   27.95    17.2   0.240   1454.6
 270.0    0.34    0.33   34.81   27.95    16.6   0.241   1454.9
 280.0    0.40    0.39   34.82   27.96    15.7   0.243   1455.4

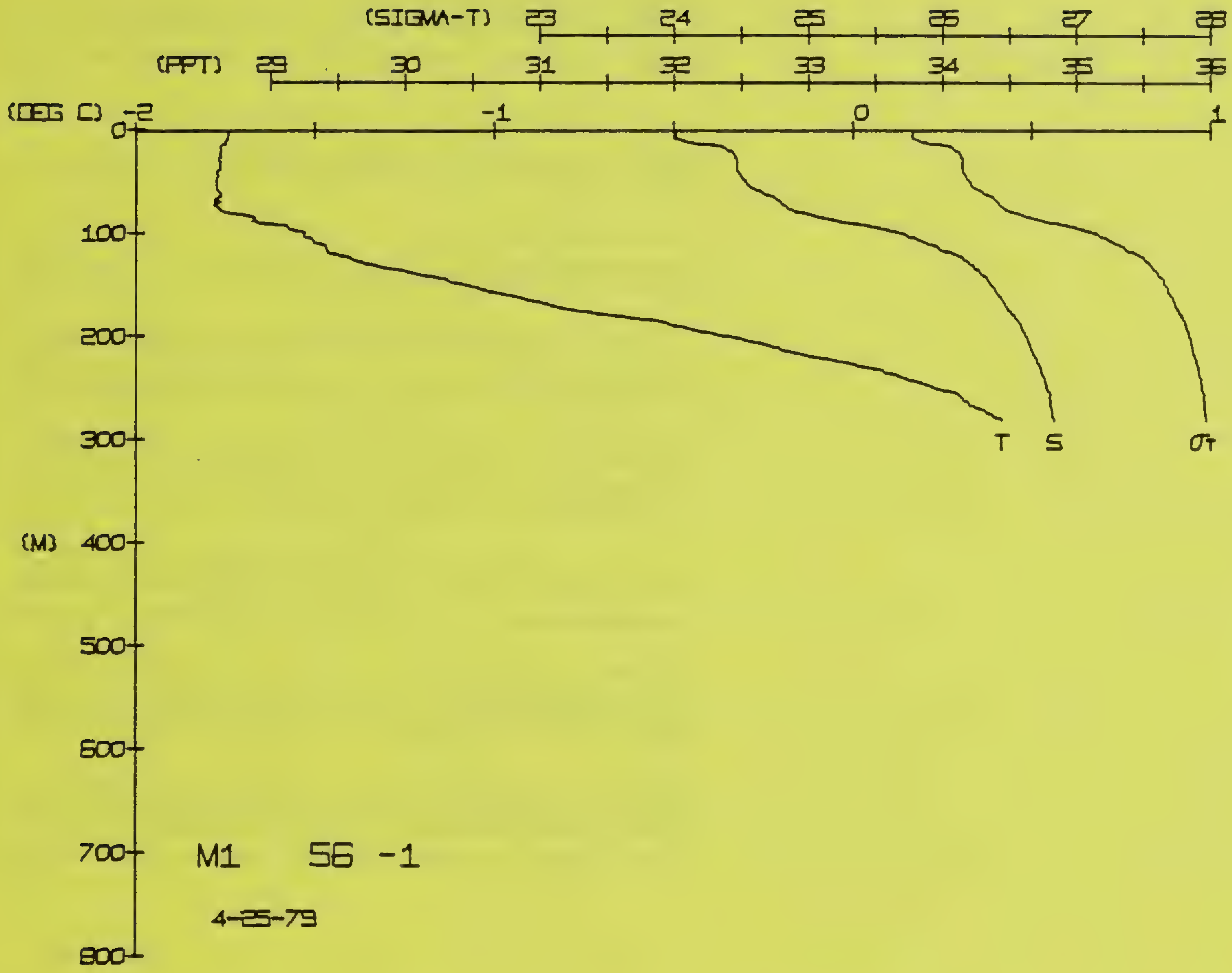
                         DEPTH       TEMP.       SALIN
```

```
 FRAM 1  STATION  57(1) CTD  25/APR/1979 1648 GMT  CODE = 1
LAT = 84.2943N LNG =   8.0107W LTER =       6. LGER =    16.
AIR TEMP = -21.7 BAROM = 1020.6 WIND =  51.0 SPEED =   0.9

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0   -1.74   -1.74   32.01   25.78   222.7   0.000   1436.9
  3.0   -1.74   -1.74   32.01   25.78   222.7   0.007   1436.9
  5.0   -1.74   -1.74   32.01   25.77   223.3   0.011   1437.0
 10.0   -1.75   -1.75   32.05   25.81   219.6   0.022   1437.1
 15.0   -1.76   -1.76   32.30   26.01   200.4   0.033   1437.5
 20.0   -1.76   -1.76   32.42   26.11   191.2   0.043   1437.7
 25.0   -1.76   -1.76   32.46   26.14   188.5   0.052   1437.8
 30.0   -1.77   -1.77   32.46   26.14   188.1   0.062   1437.9
 35.0   -1.77   -1.77   32.47   26.15   187.5   0.071   1438.0
 40.0   -1.77   -1.77   32.47   26.15   187.0   0.081   1438.1
 45.0   -1.78   -1.78   32.48   26.16   186.1   0.090   1438.1
 50.0   -1.77   -1.78   32.52   26.19   183.3   0.099   1438.3
 55.0   -1.78   -1.78   32.56   26.22   180.1   0.109   1438.4
 60.0   -1.77   -1.77   32.64   26.28   174.2   0.118   1438.6
 65.0   -1.76   -1.77   32.71   26.34   168.9   0.126   1438.8
 70.0   -1.76   -1.77   32.79   26.41   162.3   0.135   1439.0
 80.0   -1.76   -1.76   32.91   26.50   153.4   0.150   1439.4
 90.0   -1.66   -1.66   33.23   26.76   127.0   0.165   1440.5
100.0   -1.53   -1.53   33.64   27.09    97.8   0.176   1441.8
110.0   -1.49   -1.49   33.90   27.30    77.9   0.185   1442.6
120.0   -1.46   -1.46   34.07   27.44    64.5   0.192   1443.1
130.0   -1.36   -1.37   34.19   27.53    55.5   0.198   1443.9
140.0   -1.23   -1.23   34.28   27.60    47.3   0.203   1444.8
150.0   -1.10   -1.10   34.35   27.65    44.1   0.208   1445.7
160.0   -0.97   -0.98   34.42   27.70    39.8   0.212   1446.5
170.0   -0.85   -0.86   34.46   27.73    36.8   0.216   1447.3
180.0   -0.70   -0.70   34.51   27.77    33.4   0.220   1448.3
190.0   -0.51   -0.52   34.58   27.81    29.3   0.223   1449.4
200.0   -0.39   -0.39   34.61   27.83    27.3   0.226   1450.2
210.0   -0.23   -0.24   34.65   27.86    25.2   0.229   1451.1
220.0   -0.13   -0.14   34.69   27.87    23.7   0.231   1451.8
230.0    0.00   -0.01   34.72   27.90    21.5   0.233   1452.6
240.0    0.13    0.12   34.75   27.92    19.8   0.235   1453.4
250.0    0.22    0.21   34.78   27.94    18.1   0.237   1454.0
254.7    0.28    0.27   34.79   27.94    17.4   0.238   1454.4

                        DEPTH       TEMP.       SALIN
```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(M) 400
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700
800
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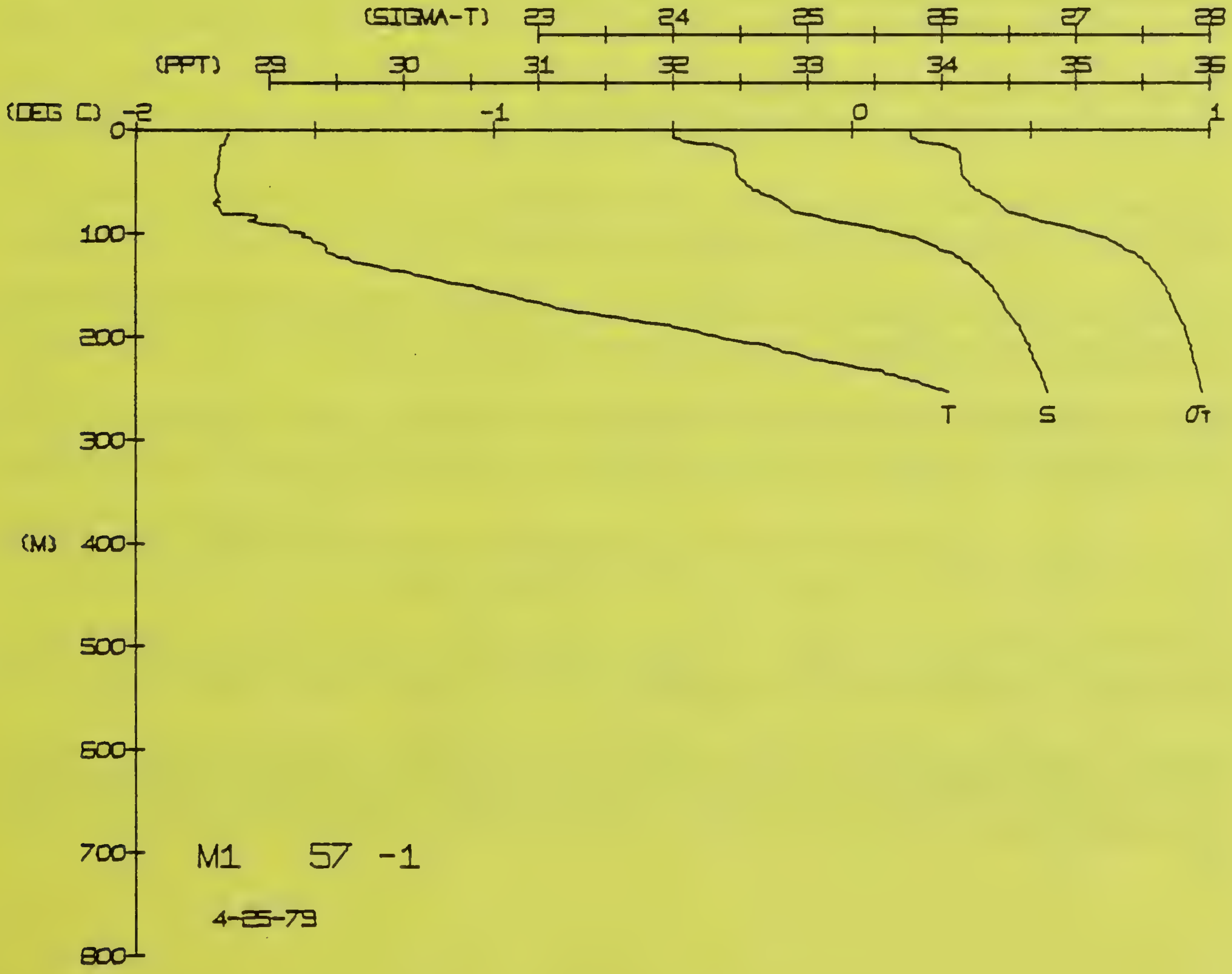
M1 56 -1
4-25-79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(M) 400
500
600
700
800
T S σT
M1 57 -1
4-25-79

```
 FRAM 1  STATION  58(1) CTD  25/APR/1979 1734 GMT  CODE = 1
LAT = 84.2918N LNG =   8.0075W LTER =       0. LGER =       0.
AIR TEMP = -21.7 BAROM = 1020.6 WIND =  51.0 SPEED =   0.9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   32.01   25.77   223.0   0.000   1436.9
   3.1   -1.74   -1.74   32.01   25.77   223.0   0.007   1436.9
   5.0   -1.74   -1.74   32.01   25.78   222.8   0.011   1437.0
  10.0   -1.75   -1.75   32.07   25.82   218.4   0.022   1437.1
  15.0   -1.76   -1.76   32.29   26.00   201.1   0.033   1437.4
  20.0   -1.76   -1.76   32.42   26.10   191.5   0.043   1437.7
  25.0   -1.76   -1.76   32.45   26.13   188.9   0.052   1437.8
  30.0   -1.77   -1.77   32.46   26.14   188.2   0.062   1437.9
  35.0   -1.77   -1.77   32.46   26.14   187.8   0.071   1438.0
  40.0   -1.77   -1.77   32.47   26.15   187.4   0.081   1438.1
  45.0   -1.77   -1.77   32.48   26.15   186.8   0.090   1438.2
  50.0   -1.77   -1.78   32.50   26.18   184.5   0.100   1438.3
  55.0   -1.78   -1.78   32.55   26.21   181.0   0.109   1438.4
  60.0   -1.77   -1.77   32.61   26.26   176.0   0.118   1438.6
  65.0   -1.76   -1.76   32.72   26.35   167.7   0.126   1438.9
  70.0   -1.75   -1.75   32.79   26.40   162.6   0.135   1439.1
  80.0   -1.75   -1.75   32.92   26.51   152.6   0.151   1439.4
  90.0   -1.66   -1.66   33.21   26.74   130.5   0.165   1440.5
 100.0   -1.55   -1.55   33.61   27.06    99.9   0.176   1441.7
 110.0   -1.48   -1.49   33.90   27.30    78.0   0.185   1442.6
 120.0   -1.46   -1.46   34.07   27.43    65.0   0.193   1443.1
 130.0   -1.37   -1.37   34.19   27.53    55.8   0.199   1443.9
 140.0   -1.25   -1.25   34.27   27.59    50.0   0.204   1444.7
 150.0   -1.13   -1.13   34.35   27.65    44.7   0.209   1445.6
 160.0   -0.98   -0.98   34.41   27.70    40.1   0.213   1446.5
 170.0   -0.86   -0.86   34.46   27.73    36.9   0.217   1447.3
 180.0   -0.72   -0.73   34.51   27.76    34.0   0.221   1448.2
 190.0   -0.55   -0.55   34.57   27.80    30.1   0.224   1449.2
 200.0   -0.39   -0.40   34.61   27.83    27.5   0.227   1450.2
 210.0   -0.24   -0.25   34.65   27.86    25.2   0.229   1451.1
 220.0   -0.13   -0.14   34.68   27.88    23.4   0.232   1451.8
 230.0    0.00   -0.01   34.72   27.90    21.4   0.234   1452.6
 240.0    0.13    0.12   34.75   27.92    19.9   0.236   1453.4
 245.0    0.18    0.17   34.77   27.93    18.5   0.237   1453.8



                           DEPTH        TEMP.        SALIN
```

```
 FRAM 1  STATION  59(1) CTD  25/APR/1979 1858 GMT  CODE = 1
LAT = 84.2850N LNG =   8.0040W LTER =       1. LGER =       1.
AIR TEMP = -22.0 BAROM = 1020.8 WIND =  50.0 SPEED =   2.0

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0   -1.74   -1.74   32.02   25.78   222.2   0.000   1436.9
  3.0   -1.74   -1.74   32.02   25.78   222.2   0.007   1436.9
  5.0   -1.75   -1.75   32.02   25.78   222.5   0.011   1437.0
 10.0   -1.74   -1.74   32.04   25.80   220.3   0.022   1437.1
 15.0   -1.76   -1.76   32.31   26.02   200.0   0.033   1437.5
 20.0   -1.76   -1.76   32.44   26.12   189.9   0.043   1437.7
 25.0   -1.77   -1.77   32.46   26.14   188.3   0.052   1437.8
 30.0   -1.76   -1.76   32.46   26.14   187.8   0.062   1437.9
 35.0   -1.77   -1.77   32.47   26.15   187.4   0.071   1438.0
 40.0   -1.77   -1.77   32.47   26.15   187.3   0.081   1438.1
 45.0   -1.76   -1.77   32.48   26.16   186.1   0.090   1438.2
 50.0   -1.77   -1.77   32.49   26.16   185.6   0.099   1438.3
 55.0   -1.77   -1.77   32.53   26.20   182.5   0.109   1438.4
 60.0   -1.78   -1.78   32.61   26.26   176.0   0.118   1438.6
 65.0   -1.77   -1.77   32.73   26.35   167.3   0.126   1438.8
 70.0   -1.76   -1.76   32.79   26.40   162.6   0.135   1439.0
 80.0   -1.71   -1.71   32.92   26.51   152.2   0.151   1439.6
 90.0   -1.65   -1.66   33.21   26.75   129.9   0.165   1440.5
100.0   -1.54   -1.54   33.64   27.09    97.7   0.176   1441.8
110.0   -1.48   -1.49   33.90   27.30    77.8   0.185   1442.6
120.0   -1.46   -1.47   34.05   27.42    66.5   0.192   1443.1
130.0   -1.39   -1.39   34.17   27.51    57.5   0.199   1443.7
140.0   -1.23   -1.23   34.29   27.60    48.8   0.204   1444.8
150.0   -1.11   -1.11   34.35   27.65    44.1   0.209   1445.7
160.0   -0.97   -0.97   34.41   27.70    40.2   0.213   1446.6
170.0   -0.86   -0.87   34.46   27.73    37.2   0.217   1447.3
180.0   -0.74   -0.75   34.50   27.76    34.5   0.220   1448.1
190.0   -0.56   -0.57   34.56   27.80    30.7   0.224   1449.1
200.0   -0.39   -0.40   34.60   27.83    28.0   0.227   1450.2
210.0   -0.26   -0.27   34.64   27.85    25.9   0.229   1451.0
220.0   -0.14   -0.14   34.67   27.87    24.1   0.232   1451.8
230.0   -0.02   -0.03   34.70   27.89    22.6   0.234   1452.5
240.0    0.12    0.11   34.74   27.91    20.1   0.236   1453.4
250.0    0.24    0.23   34.78   27.94    18.1   0.238   1454.1
260.0    0 31    0.30   34.80   27.95    17.1   0.240   1454.6
270.0    0.36    0.35   34.81   27.95    16.7   0.242   1455.0
280.0    0.43    0.42   34.83   27.96    15.7   0.243   1455.6
290.0    0.50    0.49   34.85   27.98    14.5   0.245   1456.1
300.0    0.54    0.53   34.85   27.98    14.4   0.246   1456.4
310.0    0.56    0.54   34.86   27.98    14.1   0.248   1456.7
320.0    0.57    0.56   34.86   27.98    13.9   0.249   1456.9
330.0    0.59    0.57   34.87   27.99    13.8   0.251   1457.1
340.0    0.62    0.61   34.87   27.99    13.4   0.252   1457.5
350.0    0.65    0.63   34.88   27.99    13.1   0.253   1457.8
370.0    0.69    0.68   34.89   28.00    12.6   0.256   1458.3
390.0    0.68    0.66   34.87   27.98    14.1   0.259   1458.6
410.0    0.65    0.63   34.87   27.99    13.7   0.262   1458.7
430.0    0.60    0.58   34.88   27.99    13.1   0.264   1458.9
450.0    0.58    0.56   34.89   28.00    12.8   0.267   1459.1
470.0    0.54    0.52   34.88   28.00    12.3   0.269   1459.3
490.0    0.47    0.45   34.89   28.01    11.7   0.272   1459.3
510.0    0.40    0.37   34.89   28.01    11.2   0.274   1459.3
530.0    0.35    0.32   34.89   28.02    10.8   0.276   1459.4
550.0    0.31    0.28   34.89   28.02    10.7   0.279   1459.6
570.0    0.27    0.24   34.89   28.02    10.4   0.281   1459.7
590.0    0.22    0.19   34.88   28.02    10.1   0.283   1459.8
610.0    0.18    0.16   34.88   28.02     9.9   0.285   1460.0
630.0    0.14    0.11   34.89   28.03     9.4   0.287   1460.1
650.0    0.11    0.08   34.89   28.03     9.1   0.289   1460.3
670.0    0.08    0.05   34.89   28.03     8.9   0.290   1460.5
690.0    0.05    0.02   34.89   28.04     8.5   0.292   1460.7

                           DEPTH        TEMP.        SALIN

       BOT NUM = 1           3.6        -1.75        32.02
       BOT NUM = 2         703.3         0.04        34.90
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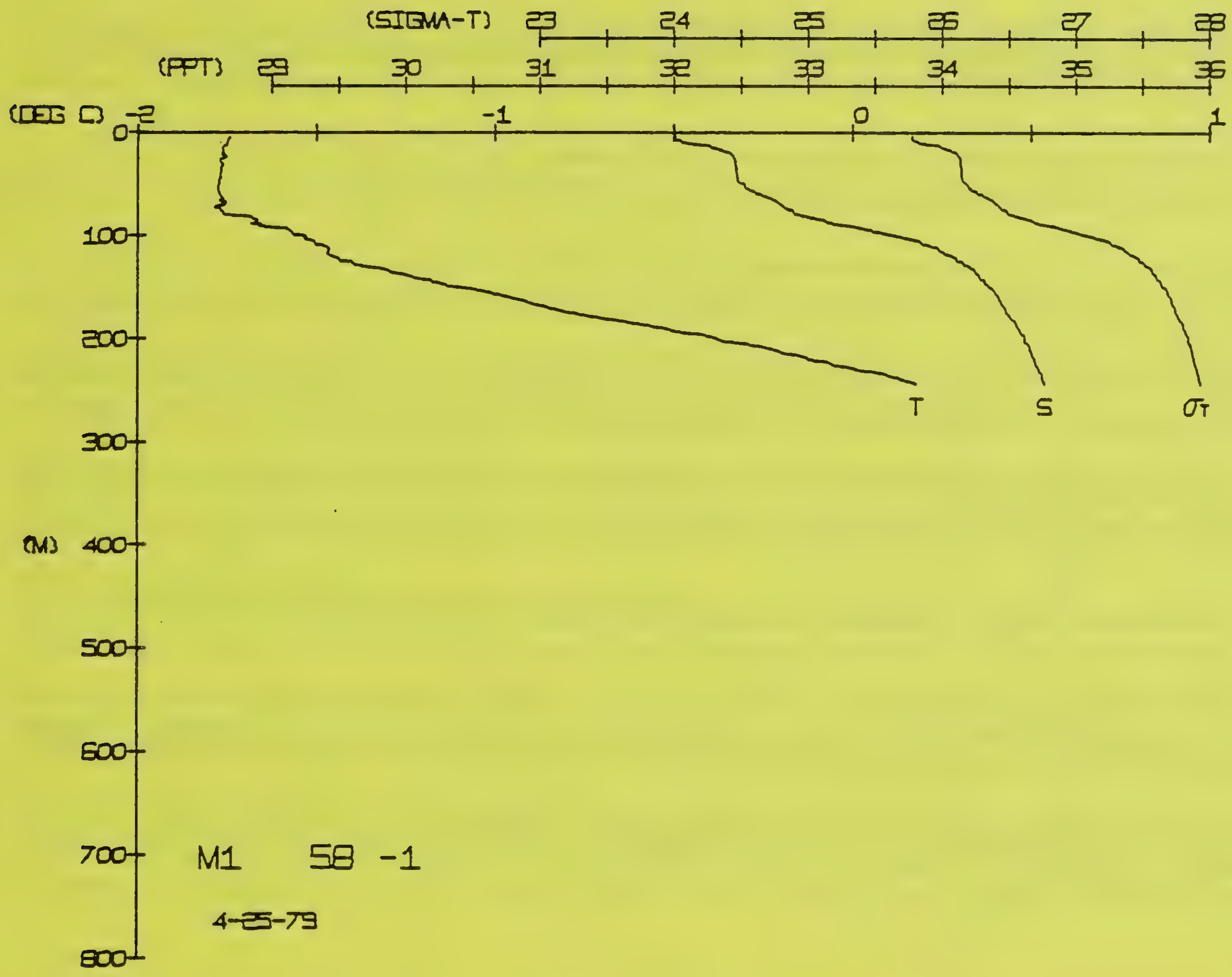
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100
200
300
(M) 400
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600
700
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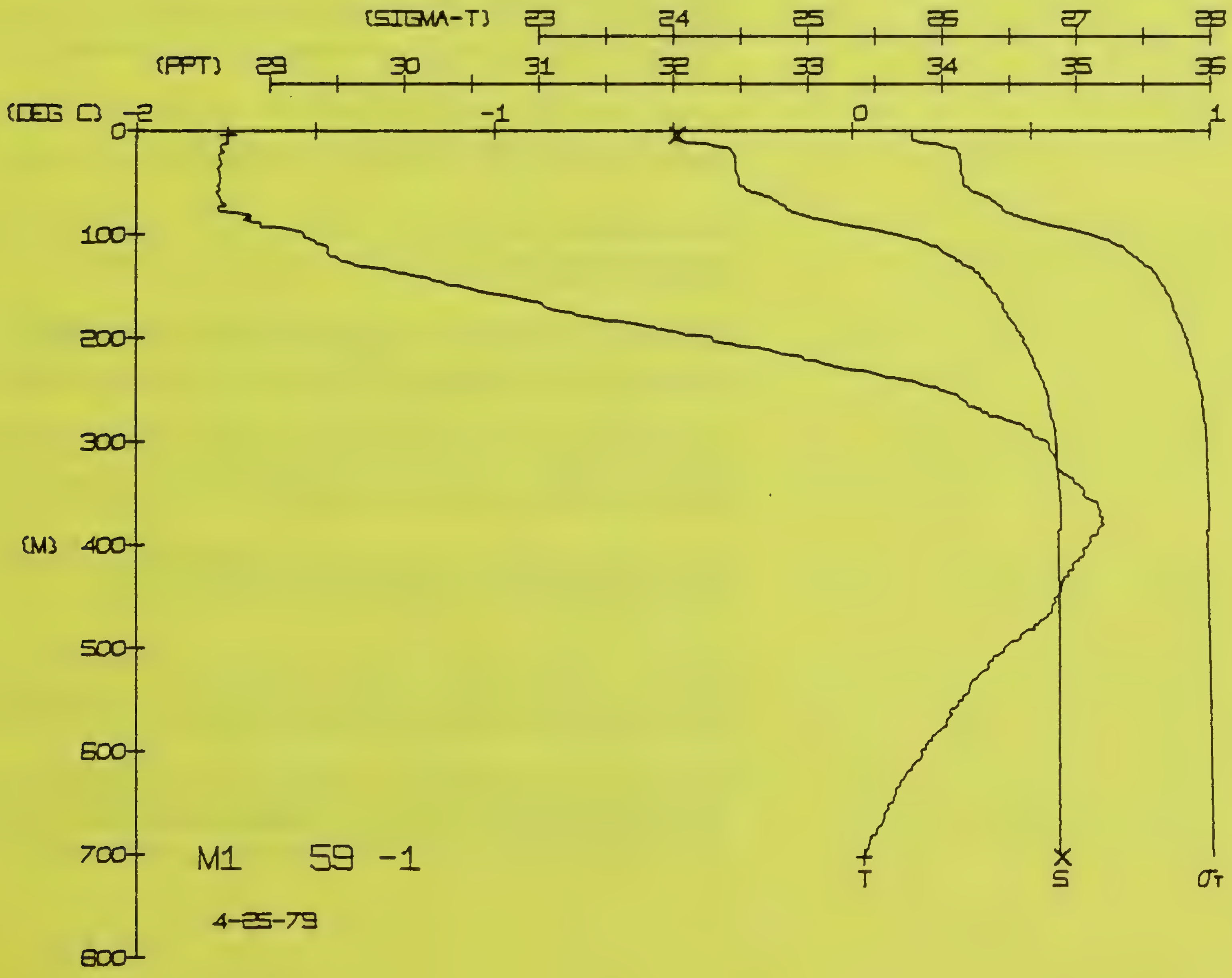
T
S
σT
M1 58 -1
4-25-79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0
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200
300
(M) 400
500
600
700
800
T
S
σT
M1 59 -1
4-25-79

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 FRAM 1  STATION  60(1) CTD  26/APR/1979  705 GMT  CODE = 1
LAT = 84.2884N LNG =   7.9756W LTER =      1. LGER =      1.
AIR TEMP = -22.0 BAROM = 1020.1 WIND =  50.0 SPEED =   2.0

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.74   -1.74   32.07   25.82   218.3   0.000   1437.0
   3.2   -1.74   -1.74   32.07   25.82   218.3   0.007   1437.0
   5.0   -1.74   -1.74   32.07   25.82   218.4   0.011   1437.0
  10.0   -1.75   -1.75   32.14   25.88   213.2   0.022   1437.2
  15.0   -1.76   -1.76   32.31   26.02   200.0   0.032   1437.5
  20.0   -1.76   -1.76   32.42   26.11   191.3   0.042   1437.7
  25.0   -1.77   -1.77   32.44   26.13   189.3   0.052   1437.8
  30.0   -1.77   -1.77   32.45   26.13   188.7   0.061   1437.9
  35.0   -1.76   -1.76   32.46   26.14   187.7   0.071   1438.0
  40.0   -1.76   -1.76   32.45   26.13   188.9   0.080   1438.1
  45.0   -1.77   -1.77   32.46   26.14   187.6   0.090   1438.1
  50.0   -1.75   -1.76   32.50   26.18   184.5   0.099   1438.3
  55.0   -1.77   -1.77   32.56   26.22   180.1   0.108   1438.4
  60.0   -1.77   -1.78   32.62   26.27   175.3   0.117   1438.6
  65.0   -1.78   -1.78   32.69   26.33   169.9   0.126   1438.7
  70.0   -1.76   -1.77   32.75   26.38   165.2   0.134   1439.0
  80.0   -1.70   -1.70   32.91   26.50   153.4   0.150   1439.7
  90.0   -1.66   -1.66   33.26   26.78   126.6   0.164   1440.5
 100.0   -1.54   -1.54   33.57   27.04   102.5   0.176   1441.7
 110.0   -1.51   -1.51   33.85   27.26    81.2   0.185   1442.4
 120.0   -1.46   -1.47   34.02   27.40    68.5   0.193   1443.0
 130.0   -1.41   -1.41   34.13   27.48    60.1   0.199   1443.6
 140.0   -1.24   -1.25   34.25   27.58    51.5   0.205   1444.7
 150.0   -1.13   -1.13   34.34   27.64    45.3   0.210   1445.5
 160.0   -1.00   -1.00   34.39   27.68    41.5   0.214   1446.4
 170.0   -0.86   -0.86   34.44   27.72    38.2   0.218   1447.3
 180.0   -0.73   -0.74   34.48   27.74    35.8   0.222   1448.1
 190.0   -0.59   -0.60   34.53   27.77    32.9   0.225   1448.9
 200.0   -0.46   -0.47   34.58   27.81    29.9   0.229   1449.8
 210.0   -0.29   -0.30   34.61   27.83    27.7   0.232   1450.8
 220.0   -0.17   -0.17   34.65   27.85    25.7   0.234   1451.6
 230.0   -0.03   -0.04   34.69   27.88    23.5   0.237   1452.4
 240.0    0.10    0.09   34.72   27.90    21.5   0.239   1453.3
 250.0    0.24    0.23   34.76   27.92    19.7   0.241   1454.1
 260.0    0.30    0.29   34.78   27.93    18.8   0.243   1454.6
 270.0    0.34    0.33   34.78   27.93    18.5   0.245   1454.9
 280.0    0.41    0.40   34.81   27.95    17.2   0.247   1455.4
 290.0    0.48    0.47   34.82   27.96    16.4   0.248   1455.9
 300.0    0.51    0.50   34.83   27.96    15.8   0.250   1456.2
 310.0    0.55    0.53   34.84   27.97    15.7   0.252   1456.6
 320.0    0.57    0.56   34.84   27.97    15.4   0.253   1456.9
 330.0    0.58    0.56   34.84   27.97    15.4   0.255   1457.1
 340.0    0.62    0.60   34.85   27.97    15.0   0.256   1457.4
 350.0    0.63    0.61   34.86   27.98    14.6   0.258   1457.7
 370.0    0.68    0.67   34.87   27.99    13.9   0.261   1458.2
 390.0    0.68    0.66   34.89   28.00    12.4   0.263   1458.6
 410.0    0.63    0.61   34.89   28.01    12.1   0.266   1458.7
 430.0    0.61    0.59   34.90   28.01    11.6   0.268   1458.9
 450.0    0.58    0.56   34.90   28.01    11.2   0.270   1459.1
 470.0    0.53    0.51   34.91   28.02    10.6   0.273   1459.2
 490.0    0.47    0.45   34.90   28.02    10.4   0.275   1459.3
 510.0    0.41    0.39   34.91   28.03     9.9   0.277   1459.4
 530.0    0.37    0.35   34.90   28.03     9.6   0.279   1459.5
 550.0    0.31    0.29   34.90   28.03     9.4   0.281   1459.6
 570.0    0.27    0.25   34.91   28.04     8.9   0.283   1459.8
 590.0    0.23    0.20   34.90   28.03     8.9   0.284   1459.9
 610.0    0.20    0.17   34.90   28.04     8.6   0.286   1460.1
 630.0    0.16    0.13   34.91   28.04     8.0   0.288   1460.2
 650.0    0.12    0.10   34.91   28.04     8.0   0.289   1460.4
 670.0    0.09    0.06   34.91   28.05     7.4   0.291   1460.6
 690.0    0.06    0.03   34.91   28.05     7.3   0.292   1460.8
 699.2    0.05    0.02   34.91   28.05     6.8   0.293   1460.9

                          DEPTH      TEMP.      SALIN

      BOT NUM = 1           3.6      -1.75      32.08
      BOT NUM = 2          37.3      -1.77
      BOT NUM = 3         386.6       0.69      34.88
      BOT NUM = 4         699.8       0.05      34.90
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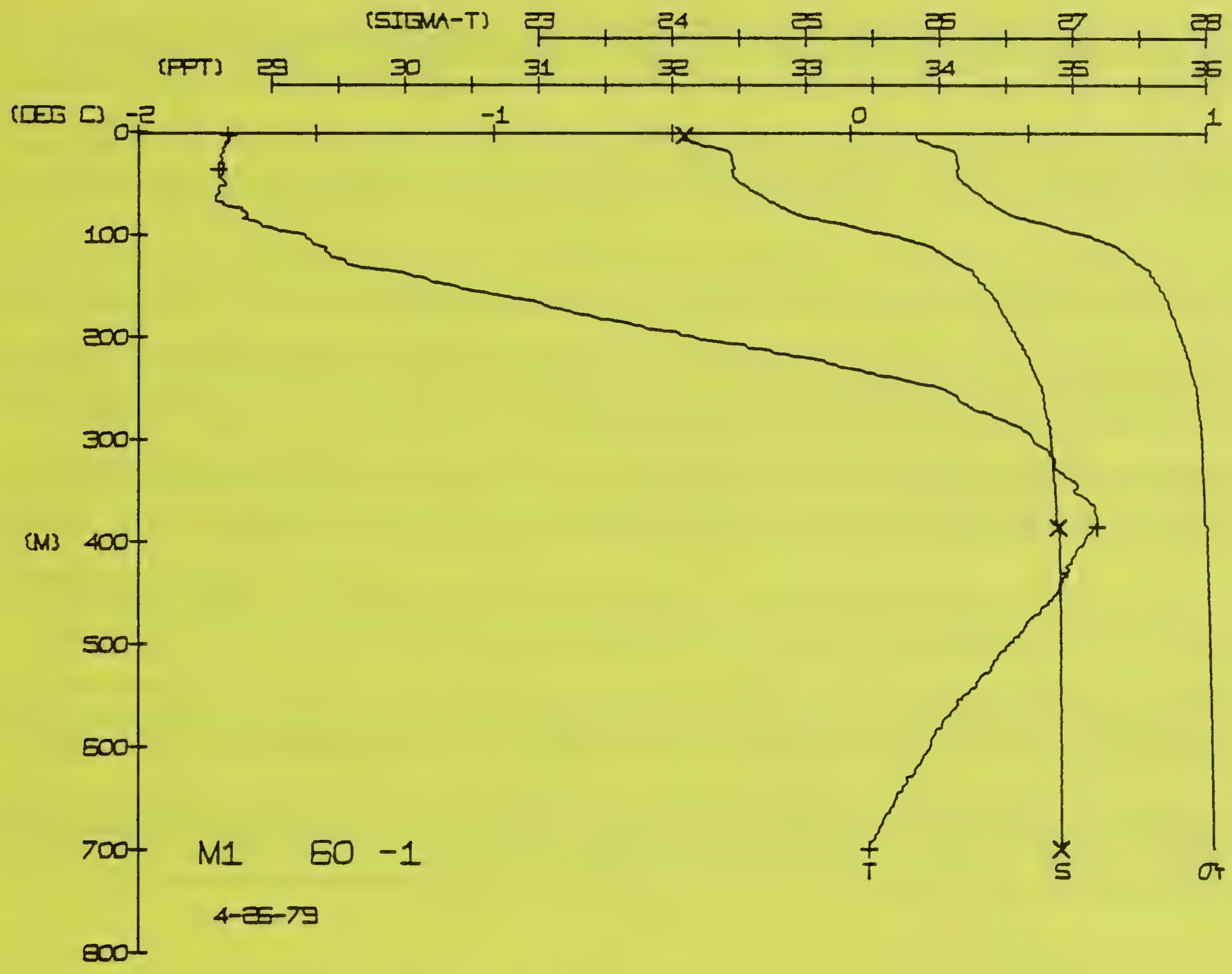
 FRAM 1  STATION  61(1) CTD  26/APR/1979 1337 GMT  CODE = 1
LAT = 84.2879N LNG =   7.9507W LTER =      1. LGER =      1.
AIR TEMP = -21.3 BAROM = 1017.2 WIND = 130.0 SPEED =   2.1

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0   -1.74   -1.74   32.08   25.83   217.9   0.000   1437.0
  3.1   -1.74   -1.74   32.08   25.83   217.9   0.007   1437.0
  5.0   -1.74   -1.74   32.09   25.84   216.4   0.011   1437.1
 10.0   -1.75   -1.75   32.17   25.90   210.7   0.022   1437.2
 15.0   -1.76   -1.76   32.28   26.00   201.9   0.032   1437.4
 20.0   -1.76   -1.76   32.38   26.07   194.7   0.042   1437.6
 25.0   -1.76   -1.76   32.43   26.12   190.1   0.052   1437.8
 30.0   -1.77   -1.77   32.46   26.14   188.4   0.061   1437.9
 35.0   -1.77   -1.77   32.47   26.15   187.3   0.071   1438.0
 40.0   -1.76   -1.77   32.48   26.15   186.6   0.080   1438.1
 45.0   -1.77   -1.77   32.49   26.16   185.7   0.090   1438.2
 50.0   -1.76   -1.76   32.49   26.17   185.4   0.099   1438.3
 55.0   -1.76   -1.76   32.57   26.23   179.6   0.108   1438.5
 60.0   -1.73   -1.73   32.65   26.29   173.5   0.117   1438.8
 65.0   -1.78   -1.78   32.74   26.36   166.4   0.126   1438.8
 70.0   -1.75   -1.75   32.78   26.40   162.9   0.134   1439.1
 80.0   -1.69   -1.69   32.99   26.57   146.8   0.149   1439.9
 90.0   -1.66   -1.66   33.30   26.82   123.3   0.163   1440.6
100.0   -1.54   -1.54   33.65   27.09    97.1   0.174   1441.8
110.0   -1.48   -1.48   33.87   27.27    80.3   0.183   1442.6
120.0   -1.46   -1.46   34.04   27.41    66.7   0.191   1443.1
130.0   -1.38   -1.38   34.18   27.53    56.2   0.197   1443.8
140.0   -1.26   -1.26   34.28   27.60    49.6   0.202   1444.7
150.0   -1.12   -1.13   34.35   27.65    44.1   0.207   1445.6
160.0   -0.99   -0.99   34.42   27.70    39.7   0.211   1446.5
170.0   -0.85   -0.85   34.47   27.74    36.0   0.215   1447.4
180.0   -0.70   -0.70   34.53   27.78    32.3   0.218   1448.3
190.0   -0.53   -0.54   34.57   27.81    29.7   0.221   1449.3
200.0   -0.41   -0.42   34.61   27.83    27.3   0.224   1450.1
210.0   -0.30   -0.31   34.64   27.85    25.4   0.227   1450.8
220.0   -0.16   -0.17   34.69   27.88    23.3   0.229   1451.6
230.0   -0.03   -0.04   34.72   27.90    21.3   0.232   1452.5
240.0    0.10    0.09   34.75   27.92    19.6   0.234   1453.3
250.0    0.23    0.22   34.78   27.94    17.6   0.236   1454.1
260.0    0.30    0.29   34.81   27.95    16.5   0.237   1454.6
260.7    0.30    0.29   34.81   27.96    16.3   0.237   1454.6

                          DEPTH      TEMP.      SALIN
```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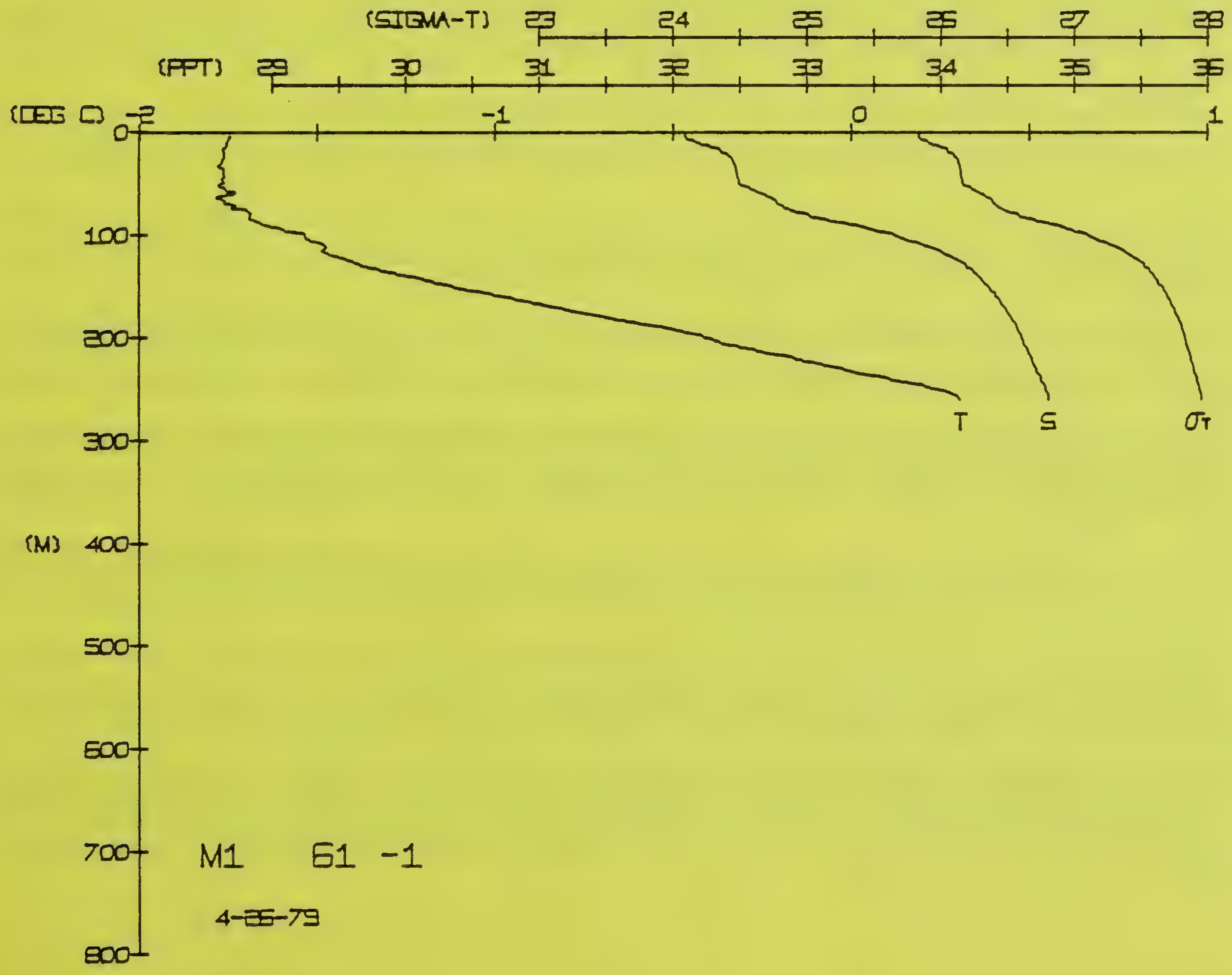
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 60 -1
4-26-79
T
S
σT


(SIGMA-T) 23 24 25 26 27 28
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
T
S
σT
M1 61 -1
4-26-79

```
 FRAM 1  STATION  62(1) CTD  26/APR/1979 1850 GMT  CODE = 1
LAT = 84. 2880N LNG =   7. 9830W LTER =      1. LGER =      2.
AIR TEMP = -21. 3 BAROM = 1014. 2 WIND = 130. 0 SPEED =    2. 1

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 75  -1. 75  32. 09  25. 84  216. 5  0. 000  1437. 0
   3. 1  -1. 75  -1. 75  32. 09  25. 84  216. 5  0. 007  1437. 0
   5. 0  -1. 75  -1. 75  32. 09  25. 84  216. 5  0. 011  1437. 1
  10. 0  -1. 75  -1. 75  32. 19  25. 92  209. 1  0. 022  1437. 3
  15. 0  -1. 76  -1. 76  32. 38  26. 07  194. 7  0. 032  1437. 5
  20. 0  -1. 76  -1. 76  32. 41  26. 10  192. 2  0. 042  1437. 7
  25. 0  -1. 76  -1. 76  32. 42  26. 10  191. 6  0. 051  1437. 8
  30. 0  -1. 77  -1. 77  32. 43  26. 12  190. 2  0. 061  1437. 8
  35. 0  -1. 76  -1. 76  32. 45  26. 13  189. 1  0. 070  1438. 0
  40. 0  -1. 77  -1. 77  32. 46  26. 14  188. 1  0. 080  1438. 1
  45. 0  -1. 77  -1. 77  32. 50  26. 17  185. 1  0. 089  1438. 2
  50. 0  -1. 77  -1. 77  32. 53  26. 19  182. 7  0. 099  1438. 3
  55. 0  -1. 76  -1. 76  32. 58  26. 24  178. 4  0. 108  1438. 5
  60. 0  -1. 76  -1. 76  32. 63  26. 28  174. 7  0. 117  1438. 7
  65. 0  -1. 76  -1. 76  32. 71  26. 34  168. 7  0. 125  1438. 8
  70. 0  -1. 76  -1. 76  32. 77  26. 39  163. 9  0. 134  1439. 0
  80. 0  -1. 68  -1. 68  32. 97  26. 55  148. 6  0. 149  1439. 9
  90. 0  -1. 67  -1. 67  33. 23  26. 76  128. 4  0. 163  1440. 5
 100. 0  -1. 55  -1. 55  33. 59  27. 05  101. 5  0. 175  1441. 7
 110. 0  -1. 50  -1. 50  33. 88  27. 28   79. 1  0. 184  1442. 5
 120. 0  -1. 44  -1. 45  34. 06  27. 43   65. 3  0. 191  1443. 2
 130. 0  -1. 38  -1. 38  34. 18  27. 52   56. 4  0. 197  1443. 8
 140. 0  -1. 24  -1. 24  34. 27  27. 59   49. 8  0. 203  1444. 8
 150. 0  -1. 12  -1. 12  34. 35  27. 65   44. 3  0. 207  1445. 6
 160. 0  -0. 97  -0. 97  34. 41  27. 70   40. 1  0. 212  1446. 5
 170. 0  -0. 83  -0. 84  34. 47  27. 74   36. 3  0. 216  1447. 4
 180. 0  -0. 72  -0. 73  34. 51  27. 76   33. 9  0. 219  1448. 2
 190. 0  -0. 58  -0. 58  34. 55  27. 80   30. 9  0. 222  1449. 1
 200. 0  -0. 43  -0. 43  34. 59  27. 82   28. 9  0. 225  1450. 0
 210. 0  -0. 28  -0. 29  34. 64  27. 85   25. 8  0. 228  1450. 9
 220. 0  -0. 10  -0. 10  34. 69  27. 88   23. 2  0. 231  1452. 0
 230. 0  -0. 02  -0. 03  34. 71  27. 89   21. 9  0. 233  1452. 5
 240. 0   0. 11   0. 10  34. 74  27. 91   20. 2  0. 235  1453. 3
 250. 0   0. 23   0. 22  34. 78  27. 93   18. 4  0. 237  1454. 1
 260. 0   0. 30   0. 27  34. 80  27. 95   17. 2  0. 239  1454. 6
 270. 0   0. 32   0. 31  34. 80  27. 95   17. 1  0. 241  1454. 9
 280. 0   0. 40   0. 39  34. 82  27. 96   16. 1  0. 242  1455. 4
 290. 0   0. 49   0. 47  34. 84  27. 97   14. 7  0. 244  1456. 0
 300. 0   0. 52   0. 51  34. 85  27. 98   14. 3  0. 245  1456. 3
 310. 0   0. 55   0. 54  34. 86  27. 98   14. 1  0. 247  1456. 7
 320. 0   0. 57   0. 56  34. 86  27. 98   14. 0  0. 248  1456. 9
 330. 0   0. 58   0. 56  34. 86  27. 98   13. 9  0. 249  1457. 1
 340. 0   0. 61   0. 60  34. 88  27. 99   13. 2  0. 251  1457. 4
 350. 0   0. 63   0. 62  34. 88  27. 99   13. 2  0. 252  1457. 7
 370. 0   0. 69   0. 67  34. 89  28. 00   12. 6  0. 255  1458. 3
 390. 0   0. 67   0. 65  34. 89  28. 00   12. 3  0. 257  1458. 6
 410. 0   0. 64   0. 62  34. 89  28. 00   12. 3  0. 260  1458. 7
 430. 0   0. 60   0. 58  34. 90  28. 01   11. 5  0. 262  1458. 9
 450. 0   0. 57   0. 55  34. 90  28. 02   11. 1  0. 264  1459. 1
 470. 0   0. 52   0. 50  34. 90  28. 02   10. 8  0. 267  1459. 2
 490. 0   0. 47   0. 44  34. 90  28. 02   10. 4  0. 269  1459. 3
 510. 0   0. 42   0. 40  34. 90  28. 03   10. 1  0. 271  1459. 4
 530. 0   0. 37   0. 34  34. 91  28. 03    9. 6  0. 273  1459. 5
 550. 0   0. 32   0. 30  34. 91  28. 03    9. 3  0. 275  1459. 7
 570. 0   0. 29   0. 27  34. 90  28. 03    9. 2  0. 277  1459. 8
 590. 0   0. 26   0. 23  34. 91  28. 04    8. 7  0. 278  1460. 0
 610. 0   0. 21   0. 19  34. 91  28. 04    8. 4  0. 280  1460. 2
 630. 0   0. 17   0. 14  34. 91  28. 04    8. 0  0. 282  1460. 3
 650. 0   0. 13   0. 10  34. 91  28. 05    7. 8  0. 283  1460. 5
 670. 0   0. 11   0. 08  34. 91  28. 05    7. 3  0. 285  1460. 7
 690. 0   0. 08   0. 05  34. 91  28. 05    7. 3  0. 286  1460. 9
 705. 5   0. 06   0. 03  34. 93  28. 07    5. 6  0. 287  1461. 1

                        DEPTH       TEMP.       SALIN

       BOT NUM = 1        3. 4      -1. 75      32. 08
       BOT NUM = 2       43. 1      -1. 77      32. 46
       BOT NUM = 3      705. 1       0. 06      34. 90
       BOT NUM = 4      704. 7       0. 06      34. 92
```

```
 FRAM 1  STATION  63(1) CTD  27/APR/1979  759 GMT  CODE = 1
LAT = 84. 2909N LNG =   8. 0522W LTER =      1. LGER =      2.
AIR TEMP = -20. 5 BAROM = 1015. 4 WIND =  76. 0 SPEED =    3. 3

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 74  -1. 74  32. 10  25. 85  216. 0  0. 000  1437. 0
   3. 0  -1. 74  -1. 74  32. 10  25. 85  216. 0  0. 007  1437. 1
   5. 0  -1. 74  -1. 74  32. 17  25. 90  210. 9  0. 011  1437. 2
  10. 0  -1. 76  -1. 76  32. 33  26. 08  194. 2  0. 021  1437. 5
  15. 0  -1. 76  -1. 76  32. 41  26. 10  192. 3  0. 031  1437. 6
  20. 0  -1. 77  -1. 77  32. 48  26. 16  186. 4  0. 040  1437. 8
  25. 0  -1. 77  -1. 77  32. 49  26. 16  186. 2  0. 050  1437. 8
  30. 0  -1. 77  -1. 77  32. 49  26. 17  185. 6  0. 059  1437. 9
  35. 0  -1. 77  -1. 77  32. 50  26. 17  185. 2  0. 068  1438. 0
  40. 0  -1. 77  -1. 77  32. 50  26. 17  185. 0  0. 078  1438. 1
  45. 0  -1. 77  -1. 77  32. 50  26. 17  185. 1  0. 087  1438. 2
  50. 0  -1. 77  -1. 78  32. 52  26. 19  183. 5  0. 096  1438. 3
  55. 0  -1. 78  -1. 78  32. 56  26. 22  180. 2  0. 105  1438. 4
  60. 0  -1. 77  -1. 78  32. 61  26. 26  176. 6  0. 114  1438. 6
  65. 0  -1. 77  -1. 77  32. 67  26. 31  171. 8  0. 123  1438. 7
  70. 0  -1. 77  -1. 77  32. 74  26. 37  165. 8  0. 132  1439. 0
  80. 0  -1. 74  -1. 74  32. 86  26. 47  156. 6  0. 148  1439. 4
  90. 0  -1. 66  -1. 67  33. 25  26. 78  127. 1  0. 162  1440. 5
 100. 0  -1. 56  -1. 56  33. 57  27. 03  103. 2  0. 174  1441. 6
 110. 0  -1. 48  -1. 49  33. 85  27. 26   81. 2  0. 183  1442. 5
 120. 0  -1. 47  -1. 47  34. 03  27. 40   67. 8  0. 191  1443. 0
 130. 0  -1. 38  -1. 39  34. 17  27. 51   57. 3  0. 197  1443. 8
 140. 0  -1. 25  -1. 25  34. 27  27. 59   49. 9  0. 202  1444. 7
 150. 0  -1. 14  -1. 14  34. 33  27. 63   46. 0  0. 207  1445. 5
 160. 0  -0. 99  -1. 00  34. 40  27. 69   40. 8  0. 212  1446. 4
 170. 0  -0. 84  -0. 85  34. 46  27. 73   37. 1  0. 216  1447. 4
 180. 0  -0. 73  -0. 73  34. 51  27. 76   33. 9  0. 219  1448. 1
 190. 0  -0. 59  -0. 60  34. 55  27. 79   31. 3  0. 222  1449. 0
 200. 0  -0. 42  -0. 42  34. 60  27. 82   28. 3  0. 225  1450. 0
 210. 0  -0. 29  -0. 30  34. 64  27. 85   25. 9  0. 228  1450. 8
 220. 0  -0. 16  -0. 17  34. 67  27. 87   24. 1  0. 231  1451. 6
 230. 0  -0. 04  -0. 05  34. 71  27. 89   21. 8  0. 233  1452. 4
 240. 0   0. 08   0. 07  34. 73  27. 90   21. 0  0. 235  1453. 1
 250. 0   0. 18   0. 17  34. 76  27. 92   19. 3  0. 237  1453. 8
 260. 0   0. 29   0. 28  34. 80  27. 95   16. 9  0. 239  1454. 5
 270. 0   0. 32   0. 31  34. 80  27. 95   16. 8  0. 241  1454. 9
 280. 0   0. 38   0. 37  34. 82  27. 96   16. 0  0. 242  1455. 3
 290. 0   0. 48   0. 46  34. 85  27. 98   14. 5  0. 244  1455. 9
 300. 0   0. 51   0. 49  34. 86  27. 98   14. 0  0. 245  1456. 3
 310. 0   0. 54   0. 53  34. 85  27. 98   14. 4  0. 247  1456. 6
 320. 0   0. 57   0. 56  34. 87  27. 99   13. 6  0. 248  1456. 9
 330. 0   0. 57   0. 56  34. 86  27. 98   13. 9  0. 250  1457. 1
 340. 0   0. 61   0. 59  34. 87  27. 99   13. 5  0. 251  1457. 4
 350. 0   0. 64   0. 62  34. 89  27. 99   13. 2  0. 252  1457. 7
 370. 0   0. 69   0. 67  34. 89  28. 00   12. 8  0. 255  1458. 3
 390. 0   0. 67   0. 65  34. 90  28. 01   11. 8  0. 257  1458. 6
 410. 0   0. 62   0. 61  34. 90  28. 01   11. 8  0. 260  1458. 7
 430. 0   0. 59   0. 57  34. 69  28. 01   11. 9  0. 262  1458. 9
 450. 0   0. 56   0. 54  34. 90  28. 02   10. 9  0. 265  1459. 1
 470. 0   0. 53   0. 51  34. 90  28. 02   10. 9  0. 267  1459. 3
 490. 0   0. 49   0. 47  34. 91  28. 02   10. 4  0. 269  1459. 4
 510. 0   0. 43   0. 41  34. 91  28. 03   10. 0  0. 271  1459. 5
 530. 0   0. 37   0. 35  34. 90  28. 02   10. 1  0. 273  1459. 5
 550. 0   0. 34   0. 31  34. 90  28. 03    9. 7  0. 275  1459. 7
 570. 0   0. 30   0. 27  34. 91  28. 03    9. 1  0. 277  1459. 9
 590. 0   0. 27   0. 24  34. 91  28. 04    8. 9  0. 279  1460. 1
 610. 0   0. 23   0. 20  34. 91  28. 04    8. 5  0. 281  1460. 2
 630. 0   0. 18   0. 16  34. 91  28. 04    8. 0  0. 282  1460. 4
 650. 0   0. 16   0. 13  34. 91  28. 05    7. 7  0. 284  1460. 6
 670. 0   0. 13   0. 10  34. 91  28. 05    7. 4  0. 285  1460. 8
 690. 0   0. 11   0. 08  34. 92  28. 05    7. 0  0. 287  1461. 0

                        DEPTH       TEMP.       SALIN
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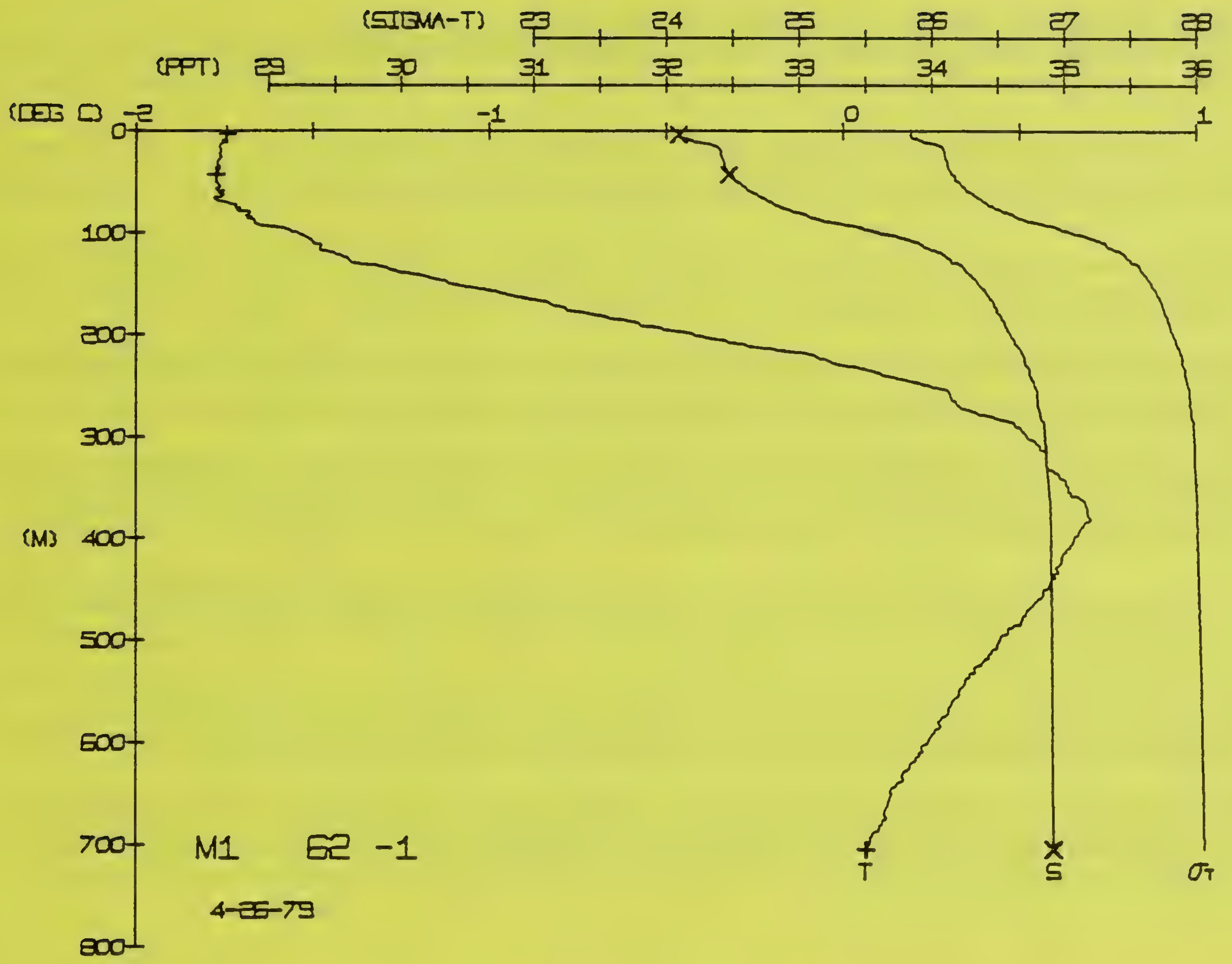
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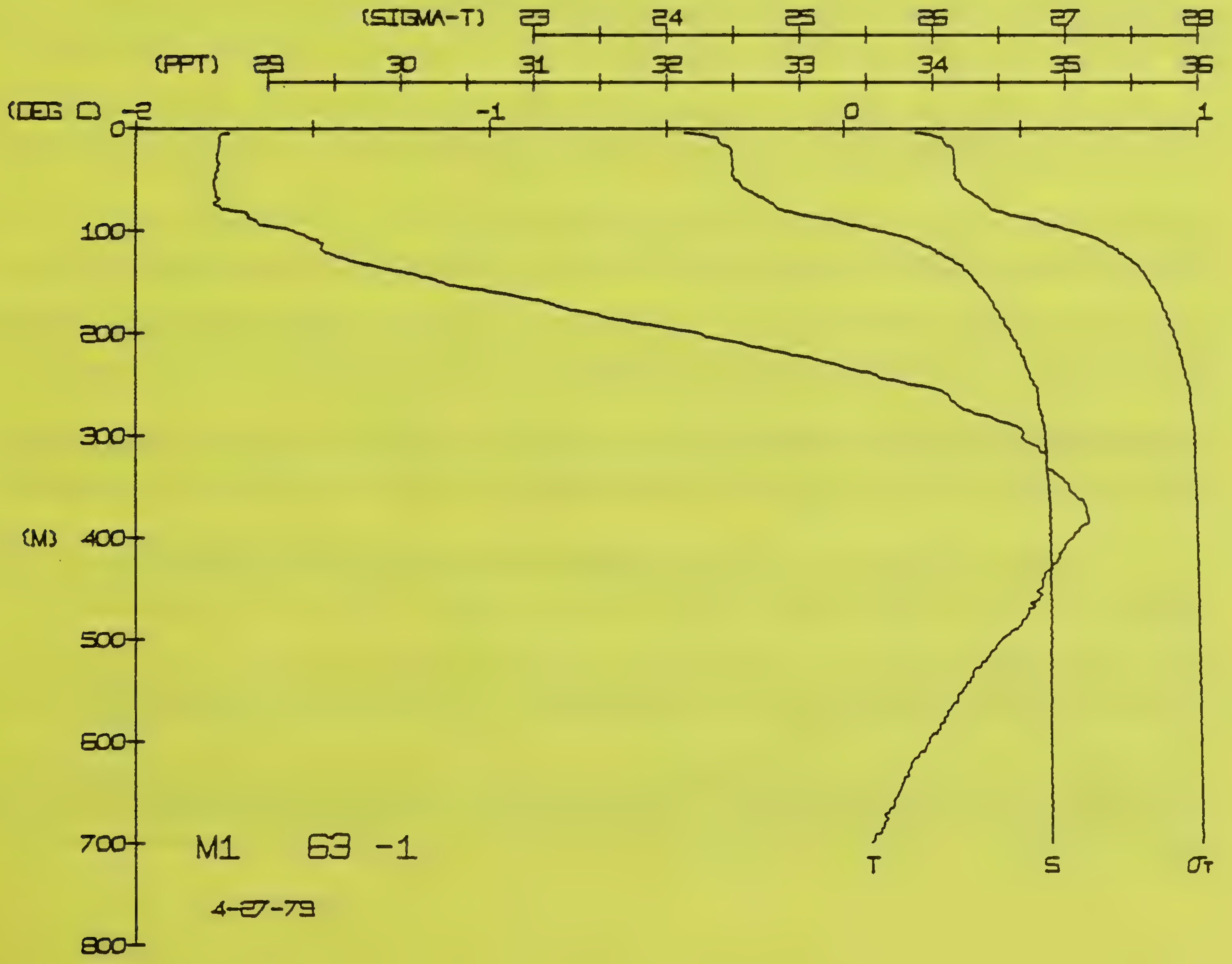
M1 62 -1
4-26-79
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
M1 63 -1
4-27-79
T
S
σT

```
 FRAM 1  STATION  64(1) CTD  27/APR/1979 1925 GMT  CODE = 1
LAT = 84. 2889N LNG =   8. 0890W LTER =     1. LGER =     2.
AIR TEMP = -20. 5 BAROM = 1022. 2 WIND =  76. 0 SPEED =   3. 3

 DEPTH   TEMP   PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0. 0 -1. 74 -1. 74 32. 13 25. 87 214. 1 0. 000 1437. 1
   3. 0 -1. 74 -1. 74 32. 13 25. 87 214. 1 0. 007 1437. 1
   5. 0 -1. 74 -1. 74 32. 15 25. 88 212. 5 0. 011 1437. 2
  10. 0 -1. 77 -1. 77 32. 37 26. 07 195. 0 0. 021 1437. 4
  15. 0 -1. 77 -1. 77 32. 48 26. 15 187. 0 0. 031 1437. 7
  20. 0 -1. 77 -1. 77 32. 48 26. 16 186. 3 0. 040 1437. 8
  25. 0 -1. 77 -1. 78 32. 49 26. 16 185. 9 0. 049 1437. 8
  30. 0 -1. 77 -1. 77 32. 48 26. 16 186. 2 0. 059 1437. 9
  35. 0 -1. 77 -1. 77 32. 49 26. 16 185. 8 0. 068 1438. 0
  40. 0 -1. 77 -1. 77 32. 50 26. 17 185. 2 0. 077 1438. 1
  45. 0 -1. 77 -1. 77 32. 50 26. 17 185. 1 0. 087 1438. 2
  50. 0 -1. 78 -1. 78 32. 52 26. 19 183. 5 0. 096 1438. 3
  55. 0 -1. 78 -1. 78 32. 55 26. 21 180. 9 0. 105 1438. 4
  60. 0 -1. 78 -1. 78 32. 58 26. 23 178. 9 0. 114 1438. 5
  65. 0 -1. 77 -1. 77 32. 66 26. 31 172. 0 0. 123 1438. 7
  70. 0 -1. 77 -1. 77 32. 76 26. 38 164. 9 0. 132 1439. 0
  80. 0 -1. 76 -1. 77 32. 84 26. 45 158. 4 0. 148 1439. 3
  90. 0 -1. 67 -1. 67 33. 22 26. 75 129. 5 0. 162 1440. 4
 100. 0 -1. 56 -1. 56 33. 60 27. 06 100. 8 0. 174 1441. 6
 110. 0 -1. 52 -1. 52 33. 80 27. 22  85. 4 0. 183 1442. 3
 120. 0 -1. 47 -1. 48 34. 01 27. 39  69. 3 0. 191 1443. 0
 130. 0 -1. 39 -1. 39 34. 16 27. 51  58. 0 0. 198 1443. 7
 140. 0 -1. 25 -1. 25 34. 28 27. 60  49. 6 0. 203 1444. 7
 150. 0 -1. 13 -1. 13 34. 34 27. 64  45. 0 0. 208 1445. 5
 160. 0 -1. 02 -1. 03 34. 39 27. 68  41. 3 0. 212 1446. 3
 170. 0 -0. 90 -0. 90 34. 44 27. 71  38. 6 0. 216 1447. 1
 180. 0 -0. 76 -0. 77 34. 50 27. 76  34. 4 0. 220 1448. 0
 190. 0 -0. 62 -0. 62 34. 54 27. 79  31. 9 0. 223 1448. 9
 200. 0 -0. 49 -0. 50 34. 58 27. 81  29. 3 0. 226 1449. 7
 210. 0 -0. 32 -0. 33 34. 63 27. 84  26. 6 0. 229 1450. 7
 220. 0 -0. 19 -0. 19 34. 66 27. 86  24. 7 0. 232 1451. 5
 230. 0 -0. 07 -0. 08 34. 69 27. 88  23. 0 0. 234 1452. 2
 240. 0  0. 04  0. 03 34. 72 27. 90  21. 3 0. 236 1453. 0
 250. 0  0. 16  0. 15 34. 76 27. 92  19. 3 0. 239 1453. 7
 260. 0  0. 28  0. 27 34. 79 27. 94  17. 6 0. 240 1454. 5
 270. 0  0. 31  0. 30 34. 80 27. 95  16. 9 0. 242 1454. 8
 280. 0  0. 37  0. 36 34. 81 27. 96  16. 4 0. 244 1455. 2
 290. 0  0. 45  0. 44 34. 83 27. 97  15. 3 0. 245 1455. 8
 300. 0  0. 51  0. 50 34. 86 27. 98  14. 0 0. 247 1456. 3
 310. 0  0. 55  0. 53 34. 86 27. 98  14. 2 0. 248 1456. 6
 320. 0  0. 57  0. 56 34. 87 27. 99  13. 4 0. 250 1456. 9
 330. 0  0. 57  0. 56 34. 87 27. 99  13. 5 0. 251 1457. 1
 340. 0  0. 61  0. 60 34. 87 27. 99  13. 4 0. 252 1457. 4
 350. 0  0. 64  0. 62 34. 88 27. 99  13. 2 0. 254 1457. 7
 370. 0  0. 69  0. 67 34. 90 28. 00  12. 4 0. 256 1458. 3
 390. 0  0. 67  0. 65 34. 90 28. 01  12. 1 0. 259 1458. 5
 410. 0  0. 63  0. 61 34. 90 28. 01  11. 6 0. 261 1458. 7
 430. 0  0. 61  0. 60 34. 89 28. 01  12. 1 0. 264 1459. 0
 450. 0  0. 57  0. 55 34. 90 28. 01  11. 5 0. 266 1459. 1
 470. 0  0. 53  0. 51 34. 90 28. 02  10. 9 0. 268 1459. 3
 490. 0  0. 48  0. 46 34. 91 28. 03  10. 0 0. 270 1459. 4
 510. 0  0. 42  0. 40 34. 90 28. 02  10. 4 0. 272 1459. 4
 530. 0  0. 37  0. 35 34. 90 28. 03   9. 7 0. 274 1459. 5
 550. 0  0. 32  0. 30 34. 90 28. 03   9. 8 0. 276 1459. 6
 570. 0  0. 30  0. 27 34. 91 28. 04   9. 0 0. 278 1459. 9
 590. 0  0. 25  0. 23 34. 90 28. 04   8. 9 0. 280 1460. 0
 610. 0  0. 23  0. 20 34. 90 28. 04   8. 8 0. 282 1460. 2
 630. 0  0. 17  0. 14 34. 91 28. 04   8. 2 0. 284 1460. 3
 650. 0  0. 14  0. 12 34. 90 28. 04   8. 4 0. 285 1460. 5
 670. 0  0. 11  0. 08 34. 91 28. 05   7. 6 0. 287 1460. 7
 690. 0  0. 08  0. 05 34. 91 28. 05   7. 3 0. 288 1460. 9
 698. 6  0. 06  0. 03 34. 92 28. 05   6. 8 0. 289 1461. 0

                        DEPTH       TEMP.       SALIN

      BOT NUM = 1         3. 6      -1. 74      32. 13
      BOT NUM = 2        36. 8      -1. 79      32. 50
      BOT NUM = 3       384. 8       0. 69      34. 88
      BOT NUM = 4       384. 9       0. 70      34. 88
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 FRAM 1  STATION  65(1) CTD  28/APR/1979  719 GMT  CODE = 1
LAT = 84. 2780N LNG =   8. 0750W LTER =     0. LGER =     0.
AIR TEMP = -22. 2 BAROM = 1028. 7 WIND = 316. 0 SPEED =   5. 3

 DEPTH   TEMP   PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0. 0 -1. 74 -1. 74 32. 13 25. 87 214. 0 0. 000 1437. 1
   3. 1 -1. 74 -1. 74 32. 13 25. 87 213. 9 0. 007 1437. 1
   5. 0 -1. 74 -1. 74 32. 13 25. 88 213. 4 0. 011 1437. 1
  10. 0 -1. 76 -1. 76 32. 39 26. 08 194. 0 0. 021 1437. 5
  15. 0 -1. 77 -1. 77 32. 47 26. 15 187. 5 0. 031 1437. 6
  20. 0 -1. 77 -1. 77 32. 48 26. 15 186. 7 0. 040 1437. 7
  25. 0 -1. 78 -1. 78 32. 49 26. 16 186. 0 0. 049 1437. 8
  30. 0 -1. 78 -1. 78 32. 49 26. 16 185. 9 0. 059 1437. 9
  35. 0 -1. 78 -1. 78 32. 50 26. 17 185. 3 0. 068 1438. 0
  40. 0 -1. 78 -1. 78 32. 48 26. 16 186. 0 0. 077 1438. 1
  45. 0 -1. 78 -1. 78 32. 49 26. 17 185. 4 0. 087 1438. 1
  50. 0 -1. 78 -1. 78 32. 49 26. 17 185. 2 0. 096 1438. 2
  55. 0 -1. 77 -1. 78 32. 55 26. 22 180. 6 0. 105 1438. 4
  60. 0 -1. 77 -1. 77 32. 62 26. 27 175. 4 0. 114 1438. 6
  65. 0 -1. 78 -1. 78 32. 73 26. 36 167. 0 0. 123 1438. 8
  70. 0 -1. 77 -1. 77 32. 77 26. 39 164. 3 0. 131 1439. 0
  80. 0 -1. 75 -1. 75 32. 87 26. 47 156. 3 0. 147 1439. 4
  90. 0 -1. 67 -1. 67 33. 18 26. 72 132. 7 0. 162 1440. 3
 100. 0 -1. 57 -1. 57 33. 51 26. 99 107. 1 0. 174 1441. 5
 110. 0 -1. 51 -1. 51 33. 83 27. 25  82. 7 0. 184 1442. 4
 120. 0 -1. 47 -1. 48 34. 00 27. 38  69. 9 0. 191 1442. 9
 130. 0 -1. 39 -1. 39 34. 15 27. 50  58. 4 0. 198 1443. 7
 140. 0 -1. 26 -1. 27 34. 27 27. 59  50. 3 0. 203 1444. 6
 150. 0 -1. 15 -1. 15 34. 33 27. 64  45. 5 0. 208 1445. 4
 160. 0 -1. 03 -1. 04 34. 39 27. 68  41. 8 0. 213 1446. 2
 170. 0 -0. 90 -0. 91 34. 44 27. 71  38. 6 0. 217 1447. 1
 180. 0 -0. 78 -0. 78 34. 48 27. 74  35. 7 0. 220 1447. 9
 190. 0 -0. 60 -0. 61 34. 54 27. 79  31. 7 0. 224 1448. 9
 200. 0 -0. 46 -0. 47 34. 59 27. 81  29. 2 0. 227 1449. 8
 210. 0 -0. 35 -0. 36 34. 63 27. 84  26. 5 0. 230 1450. 5
 220. 0 -0. 21 -0. 21 34. 66 27. 87  24. 4 0. 232 1451. 4
 230. 0 -0. 10 -0. 11 34. 69 27. 88  23. 5 0. 235 1452. 1
 240. 0  0. 04  0. 03 34. 72 27. 90  21. 4 0. 237 1453. 0
 250. 0  0. 17  0. 16 34. 76 27. 92  19. 5 0. 239 1453. 8
 260. 0  0. 26  0. 25 34. 78 27. 94  17. 9 0. 241 1454. 4
 270. 0  0. 31  0. 30 34. 80 27. 95  17. 1 0. 243 1454. 8
 280. 0  0. 35  0. 34 34. 81 27. 95  16. 8 0. 244 1455. 2
 290. 0  0. 47  0. 46 34. 83 27. 97  15. 3 0. 246 1455. 9
 300. 0  0. 51  0. 50 34. 86 27. 98  14. 0 0. 248 1456. 3
 310. 0  0. 55  0. 53 34. 86 27. 98  13. 8 0. 249 1456. 6
 320. 0  0. 57  0. 56 34. 86 27. 98  14. 2 0. 250 1456. 9
 330. 0  0. 57  0. 56 34. 86 27. 98  14. 0 0. 252 1457. 1
 340. 0  0. 61  0. 59 34. 87 27. 99  13. 3 0. 253 1457. 4
 350. 0  0. 63  0. 62 34. 89 27. 99  13. 3 0. 254 1457. 7
 370. 0  0. 66  0. 64 34. 89 28. 00  12. 9 0. 257 1458. 2
 390. 0  0. 69  0. 68 34. 90 28. 01  12. 1 0. 260 1458. 7
 410. 0  0. 63  0. 61 34. 89 28. 00  12. 6 0. 262 1458. 7
 430. 0  0. 60  0. 58 34. 90 28. 01  11. 3 0. 265 1458. 9
 450. 0  0. 58  0. 56 34. 91 28. 02  10. 9 0. 267 1459. 1
 470. 0  0. 56  0. 54 34. 90 28. 01  11. 2 0. 269 1459. 4
 490. 0  0. 50  0. 48 34. 90 28. 02  10. 8 0. 271 1459. 4
 510. 0  0. 44  0. 41 34. 90 28. 02  10. 4 0. 273 1459. 5
 530. 0  0. 38  0. 36 34. 90 28. 02  10. 1 0. 275 1459. 6
 550. 0  0. 34  0. 31 34. 90 28. 03   9. 9 0. 277 1459. 7
 570. 0  0. 29  0. 26 34. 90 28. 03   9. 2 0. 279 1459. 8
 590. 0  0. 27  0. 25 34. 90 28. 03   9. 1 0. 281 1460. 1
 610. 0  0. 23  0. 21 34. 90 28. 04   8. 9 0. 283 1460. 2
 630. 0  0. 18  0. 16 34. 91 28. 04   8. 3 0. 285 1460. 4
 650. 0  0. 15  0. 12 34. 91 28. 05   7. 8 0. 286 1460. 5
 670. 0  0. 11  0. 09 34. 91 28. 05   7. 7 0. 288 1460. 7
 690. 0  0. 09  0. 06 34. 91 28. 05   7. 7 0. 290 1460. 9

                        DEPTH       TEMP.       SALIN

      BOT NUM = 1         3. 6                  32. 12
      BOT NUM = 2        41. 6      -1. 78      32. 49
      BOT NUM = 3       394. 9
      BOT NUM = 4       699. 7       0. 06      34. 90
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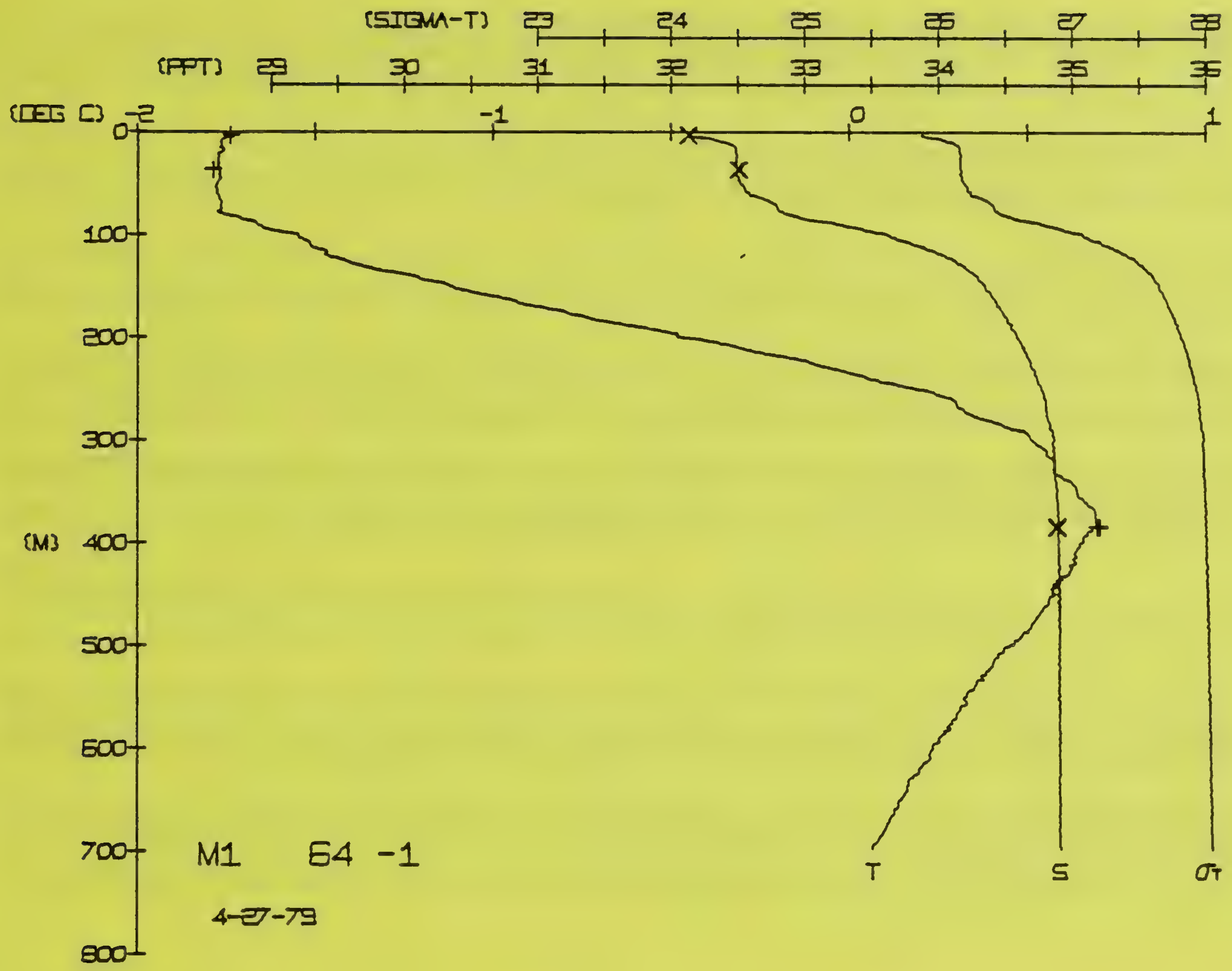
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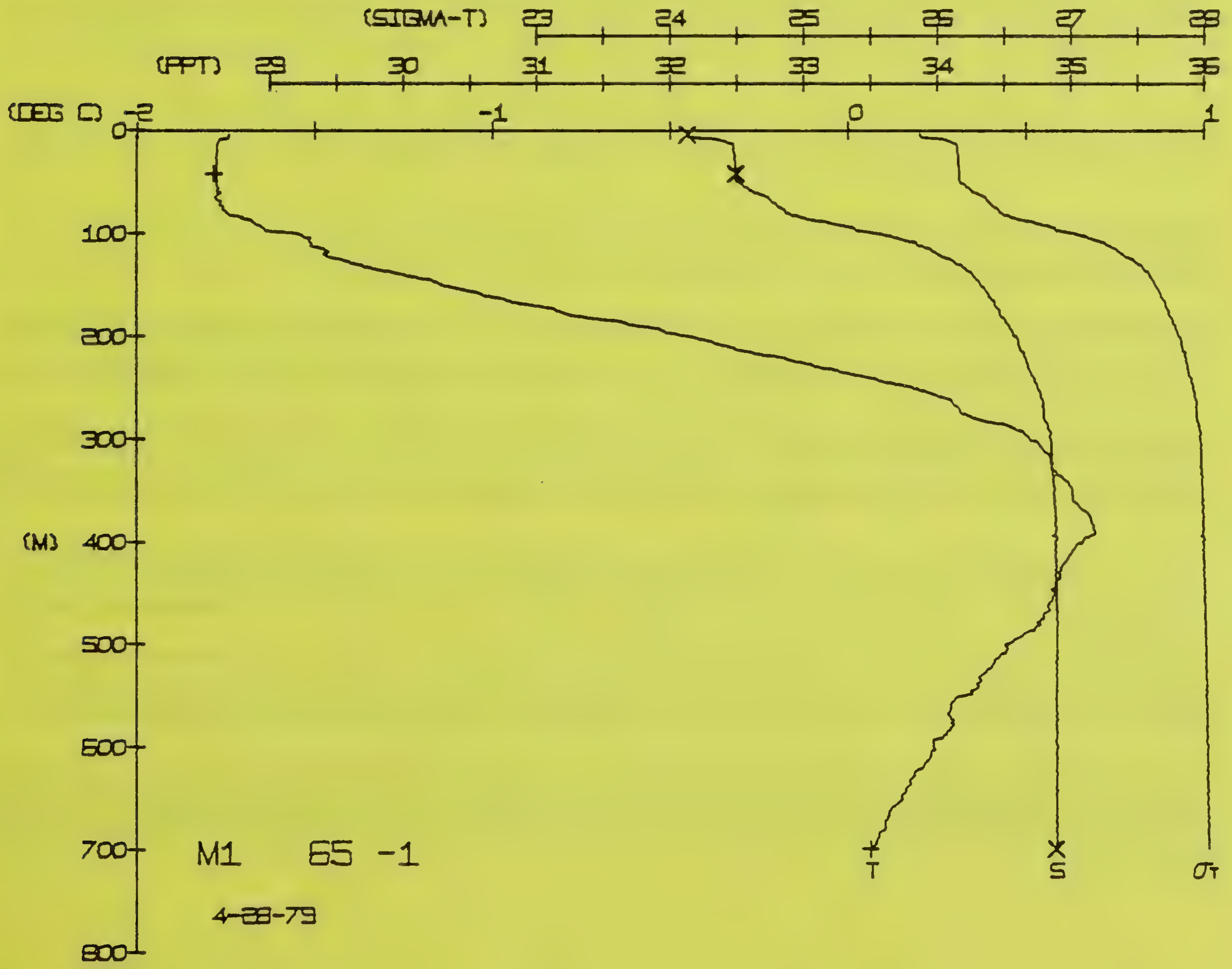
(SIGMA-T) 23 24 25 26 27 28
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
M1 65 -1
4-28-79
T
S
σT

```
 FRAM 1  STATION  66(1) CTD  28/APR/1979 1300 GMT  CODE = 1
LAT = 84.2649N LNG =   8.0279W LTER =      0. LGER =      0.
AIR TEMP = -22.2 BAROM = 1030.4 WIND = 316.0 SPEED =    5.3

 DEPTH   TEMP  PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0.0  -1.74  -1.74  32.15  25.89  212.4  0.000  1437.1
   3.0  -1.74  -1.74  32.15  25.89  212.4  0.006  1437.1
   5.0  -1.74  -1.74  32.15  25.89  212.2  0.011  1437.2
  10.0  -1.77  -1.77  32.45  26.13  189.1  0.021  1437.5
  15.0  -1.78  -1.78  32.49  26.16  186.2  0.030  1437.6
  20.0  -1.78  -1.78  32.48  26.16  186.4  0.040  1437.7
  25.0  -1.77  -1.77  32.49  26.16  186.2  0.049  1437.8
  30.0  -1.77  -1.78  32.48  26.16  186.2  0.058  1437.9
  35.0  -1.77  -1.78  32.49  26.16  185.6  0.068  1438.0
  40.0  -1.77  -1.77  32.49  26.16  185.8  0.077  1438.1
  45.0  -1.77  -1.77  32.50  26.17  185.2  0.086  1438.2
  50.0  -1.78  -1.78  32.55  26.21  180.9  0.096  1438.3
  55.0  -1.77  -1.77  32.62  26.27  175.3  0.105  1438.5
  60.0  -1.77  -1.77  32.67  26.31  171.7  0.113  1438.7
  65.0  -1.78  -1.78  32.75  26.37  165.8  0.122  1438.8
  70.0  -1.77  -1.77  32.78  26.40  163.3  0.130  1439.0
  80.0  -1.73  -1.73  32.91  26.50  153.1  0.146  1439.5
  90.0  -1.67  -1.67  33.22  26.75  129.4  0.160  1440.4
 100.0  -1.54  -1.54  33.63  27.08   98.3  0.172  1441.8
 110.0  -1.51  -1.51  33.86  27.27   80.6  0.181  1442.4
 120.0  -1.46  -1.46  34.05  27.42   66.3  0.188  1443.1
 130.0  -1.36  -1.37  34.19  27.53   55.6  0.194  1443.9
 140.0  -1.24  -1.24  34.28  27.60   49.0  0.200  1444.8
 150.0  -1.12  -1.12  34.36  27.66   43.7  0.204  1445.6
 160.0  -0.98  -0.97  34.42  27.70   39.8  0.209  1446.5
 170.0  -0.84  -0.84  34.48  27.74   35.8  0.212  1447.4
 180.0  -0.69  -0.69  34.53  27.78   32.2  0.216  1448.4
 190.0  -0.56  -0.56  34.57  27.80   30.1  0.219  1449.2
 200.0  -0.41  -0.41  34.61  27.83   27.5  0.222  1450.1
 210.0  -0.29  -0.30  34.64  27.85   25.6  0.225  1450.8
 220.0  -0.15  -0.16  34.69  27.88   23.0  0.227  1451.7
 230.0   0.00  -0.01  34.72  27.90   21.3  0.229  1452.6
 240.0   0.09   0.08  34.74  27.92   19.9  0.231  1453.2
 250.0   0.21   0.20  34.78  27.94   18.1  0.233  1454.0
 260.0   0.29   0.28  34.81  27.95   16.4  0.235  1454.5
 270.0   0.31   0.30  34.81  27.95   16.5  0.237  1454.8
 280.0   0.37   0.36  34.83  27.97   15.4  0.238  1455.3
 290.0   0.45   0.44  34.84  27.97   14.8  0.240  1455.8
 300.0   0.50   0.49  34.85  27.98   14.1  0.241  1456.3
 310.0   0.54   0.53  34.87  27.99   13.5  0.243  1456.6
 320.0   0.56   0.55  34.87  27.99   13.3  0.244  1456.9
 330.0   0.57   0.56  34.87  27.99   13.6  0.245  1457.1
 340.0   0.60   0.58  34.88  28.00   12.7  0.247  1457.4
 350.0   0.62   0.60  34.89  28.00   12.6  0.248  1457.6
 370.0   0.65   0.63  34.90  28.01   12.0  0.250  1458.1
 390.0   0.68   0.66  34.90  28.01   11.8  0.253  1458.6
 410.0   0.64   0.62  34.90  28.01   12.0  0.255  1458.7
 430.0   0.60   0.59  34.90  28.01   11.6  0.258  1458.9
 450.0   0.56   0.54  34.91  28.02   10.8  0.260  1459.1
 470.0   0.56   0.54  34.91  28.02   10.7  0.262  1459.4
 490.0   0.50   0.47  34.91  28.02   10.2  0.264  1459.4
 510.0   0.43   0.41  34.92  28.04    9.1  0.266  1459.5
 530.0   0.39   0.36  34.91  28.03    9.7  0.268  1459.6
 550.0   0.34   0.31  34.92  28.04    8.5  0.270  1459.7
 570.0   0.29   0.27  34.91  28.03    9.0  0.272  1459.8
 590.0   0.27   0.25  34.91  28.04    8.5  0.273  1460.1
 610.0   0.21   0.18  34.91  28.04    8.0  0.275  1460.1
 630.0   0.19   0.16  34.92  28.05    7.5  0.277  1460.4
 650.0   0.15   0.12  34.91  28.05    7.6  0.278  1460.5
 670.0   0.10   0.08  34.91  28.05    7.3  0.280  1460.7
 690.0   0.07   0.04  34.91  28.05    7.2  0.281  1460.8
 696.9   0.06   0.03  34.93  28.07    5.6  0.282  1460.9

                    DEPTH      TEMP.       SALIN
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 FRAM 1  STATION  67(1) CTD  28/APR/1979 1836 GMT  CODE = 1
LAT = 84.2548N LNG =   8.0089W LTER =      1. LGER =      2.
AIR TEMP = -22.2 BAROM = 1030.5 WIND = 317.0 SPEED =    6.2

 DEPTH   TEMP  PTEMP  SALIN  SIG T  SPVOL  DYNHT  SOUND

   0.0  -1.74  -1.74  32.15  25.89  211.9  0.000  1437.1
   3.1  -1.74  -1.74  32.15  25.89  211.8  0.007  1437.1
   5.0  -1.75  -1.75  32.16  25.89  211.6  0.011  1437.2
  10.0  -1.77  -1.77  32.39  26.08  193.7  0.021  1437.5
  15.0  -1.77  -1.77  32.47  26.15  187.3  0.030  1437.6
  20.0  -1.77  -1.77  32.47  26.15  187.1  0.040  1437.7
  25.0  -1.77  -1.77  32.48  26.16  186.4  0.049  1437.8
  30.0  -1.77  -1.77  32.48  26.16  186.4  0.059  1437.9
  35.0  -1.77  -1.77  32.48  26.15  186.8  0.068  1438.0
  40.0  -1.77  -1.77  32.49  26.16  185.8  0.077  1438.1
  45.0  -1.78  -1.78  32.49  26.16  185.6  0.087  1438.1
  50.0  -1.77  -1.77  32.49  26.16  185.7  0.096  1438.2
  55.0  -1.76  -1.77  32.55  26.21  181.0  0.105  1438.4
  60.0  -1.77  -1.77  32.62  26.27  175.5  0.114  1438.6
  65.0  -1.77  -1.77  32.70  26.33  169.5  0.123  1438.8
  70.0  -1.77  -1.77  32.77  26.39  163.8  0.131  1439.0
  80.0  -1.72  -1.72  32.89  26.49  154.4  0.148  1439.6
  90.0  -1.68  -1.68  33.18  26.72  132.6  0.162  1440.3
 100.0  -1.56  -1.57  33.52  27.00  106.3  0.174  1441.5
 110.0  -1.51  -1.51  33.81  27.23   84.2  0.184  1442.3
 120.0  -1.46  -1.46  34.03  27.41   67.6  0.191  1443.0
 130.0  -1.39  -1.39  34.16  27.50   58.2  0.198  1443.7
 140.0  -1.26  -1.26  34.26  27.58   51.1  0.203  1444.6
 150.0  -1.16  -1.17  34.32  27.63   46.3  0.208  1445.4
 160.0  -1.04  -1.05  34.39  27.68   41.7  0.212  1446.2
 170.0  -0.89  -0.90  34.45  27.72   37.6  0.216  1447.1
 180.0  -0.73  -0.73  34.50  27.76   34.6  0.220  1448.1
 190.0  -0.58  -0.59  34.54  27.79   31.6  0.223  1449.0
 200.0  -0.46  -0.47  34.59  27.82   28.4  0.227  1449.8
 210.0  -0.34  -0.35  34.62  27.84   26.7  0.229  1450.6
 220.0  -0.17  -0.18  34.67  27.87   24.1  0.232  1451.6
 230.0  -0.07  -0.07  34.70  27.89   22.4  0.234  1452.3
 240.0   0.10   0.09  34.73  27.91   20.8  0.236  1453.3
 250.0   0.21   0.20  34.77  27.93   18.8  0.238  1453.9
 260.0   0.29   0.28  34.79  27.94   17.5  0.240  1454.5
 270.0   0.33   0.31  34.80  27.95   17.2  0.242  1454.9
 280.0   0.40   0.39  34.82  27.96   16.0  0.244  1455.4
 290.0   0.46   0.44  34.83  27.97   15.5  0.245  1455.8
 300.0   0.50   0.48  34.85  27.98   14.4  0.247  1456.2
 310.0   0.52   0.51  34.85  27.98   14.2  0.248  1456.5
 320.0   0.55   0.54  34.86  27.98   14.2  0.250  1456.8
 330.0   0.57   0.56  34.86  27.98   14.2  0.251  1457.1
 340.0   0.60   0.58  34.87  27.98   13.9  0.252  1457.3
 350.0   0.63   0.61  34.87  27.99   13.6  0.254  1457.7
 370.0   0.66   0.65  34.89  28.00   12.7  0.257  1458.2
 390.0   0.69   0.68  34.90  28.01   12.1  0.259  1458.7
 410.0   0.65   0.63  34.89  28.00   12.2  0.262  1458.8
 430.0   0.60   0.58  34.90  28.01   11.7  0.264  1458.9
 450.0   0.57   0.55  34.90  28.02   11.0  0.266  1459.1
 470.0   0.57   0.55  34.90  28.02   11.2  0.268  1459.4
 490.0   0.50   0.48  34.90  28.02   10.9  0.271  1459.4
 510.0   0.44   0.42  34.91  28.03   10.1  0.273  1459.5
 530.0   0.40   0.37  34.91  28.03    9.8  0.275  1459.7
 550.0   0.35   0.32  34.91  28.03    9.5  0.277  1459.8
 570.0   0.28   0.26  34.91  28.04    9.0  0.279  1459.8
 590.0   0.26   0.23  34.90  28.03    9.1  0.280  1460.0
 610.0   0.24   0.21  34.90  28.04    8.9  0.282  1460.3
 630.0   0.20   0.17  34.91  28.05    7.9  0.284  1460.4
 650.0   0.15   0.13  34.91  28.04    8.0  0.286  1460.6
 670.0   0.10   0.07  34.90  28.04    8.2  0.287  1460.6
 690.0   0.08   0.05  34.91  28.05    7.6  0.289  1460.9

                    DEPTH      TEMP.       SALIN

    BOT NUM = 1       3.4      -1.74       32.14
    BOT NUM = 2      39.1      -1.78       32.49
    BOT NUM = 3     384.6       0.69       34.88
    BOT NUM = 4     701.7       0.07       34.90
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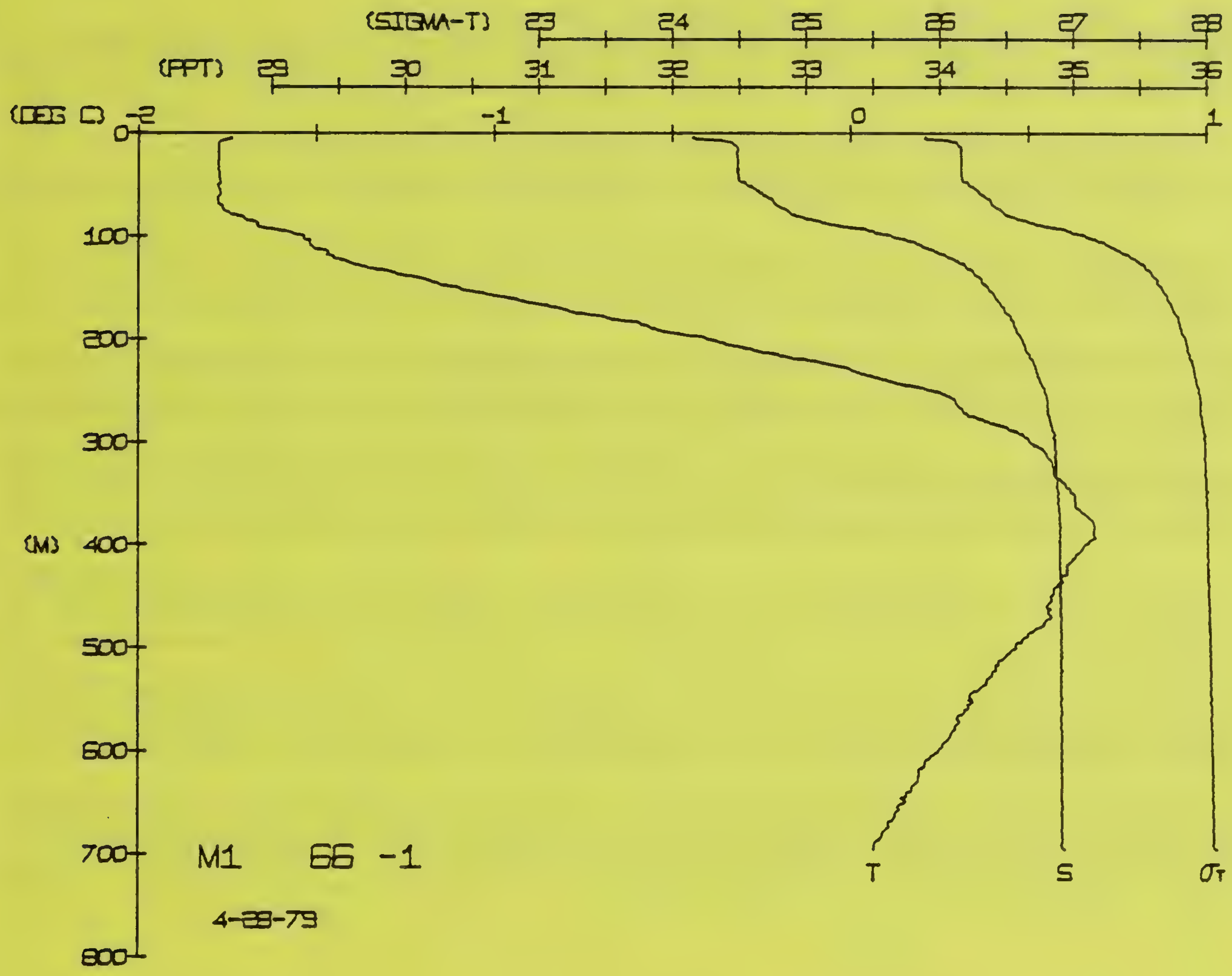
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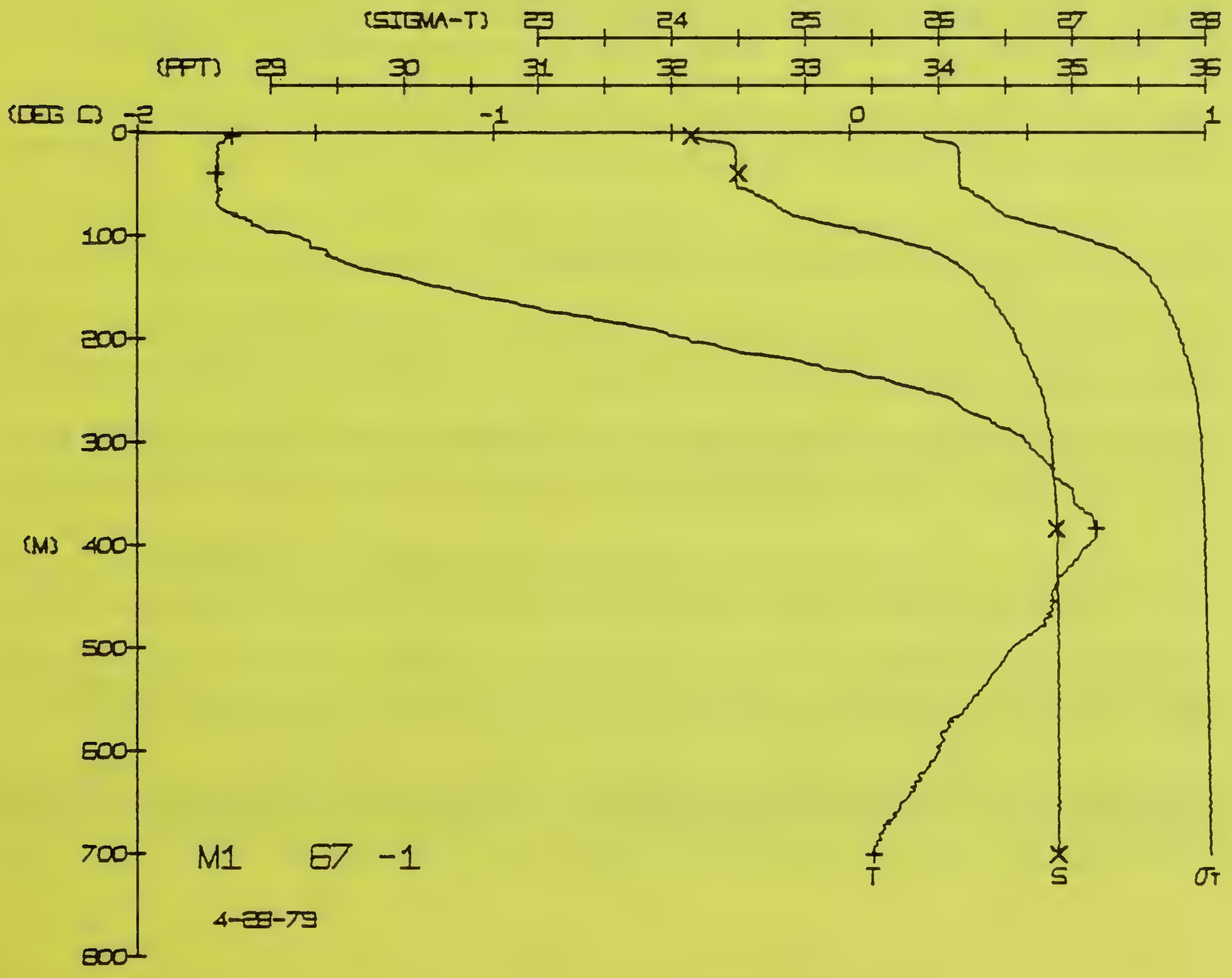
σT
M1 66 -1
4-28-79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T
S
σT
M1 67 -1
4-28-79

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 FRAM 1  STATION  68(1) CTD  29/APR/1979 1300 GMT  CODE = 1
LAT = 84.2228N LNG =    7.9389W LTER =        0.  LGER =      0.
AIR TEMP = -22.2 BAROM = 1033.7 WIND = 317.0 SPEED =    6.2

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.75   -1.75   32.26   25.97   204.0   0.000   1437.2
   3.0   -1.75   -1.75   32.26   25.97   204.0   0.006   1437.2
   5.0   -1.75   -1.75   32.29   26.00   201.2   0.010   1437.3
  10.0   -1.76   -1.76   32.41   26.10   192.3   0.020   1437.5
  15.0   -1.77   -1.77   32.47   26.15   187.3   0.030   1437.6
  20.0   -1.77   -1.77   32.47   26.15   187.2   0.039   1437.7
  25.0   -1.77   -1.78   32.47   26.15   187.5   0.049   1437.8
  30.0   -1.78   -1.78   32.48   26.15   186.8   0.058   1437.9
  35.0   -1.77   -1.77   32.48   26.16   186.3   0.067   1438.0
  40.0   -1.77   -1.78   32.48   26.16   186.5   0.077   1438.0
  45.0   -1.77   -1.78   32.49   26.16   186.0   0.086   1438.1
  50.0   -1.78   -1.78   32.54   26.20   182.1   0.095   1438.3
  55.0   -1.78   -1.78   32.61   26.26   176.2   0.104   1438.5
  60.0   -1.78   -1.78   32.70   26.33   169.7   0.113   1438.7
  65.0   -1.79   -1.79   32.74   26.37   166.2   0.122   1438.8
  70.0   -1.78   -1.78   32.76   26.39   164.3   0.130   1438.9
  80.0   -1.75   -1.75   32.90   26.49   153.9   0.146   1439.4
  90.0   -1.68   -1.68   33.12   26.67   136.9   0.161   1440.2
 100.0   -1.62   -1.62   33.52   27.00   106.4   0.173   1441.2
 110.0   -1.51   -1.51   33.83   27.24    83.0   0.182   1442.4
 120.0   -1.45   -1.46   34.04   27.41    67.3   0.190   1443.1
 130.0   -1.38   -1.39   34.16   27.50    58.3   0.196   1443.7
 140.0   -1.25   -1.25   34.27   27.59    50.1   0.202   1444.7
 150.0   -1.13   -1.14   34.33   27.64    45.6   0.207   1445.5
 160.0   -1.02   -1.02   34.39   27.68    41.3   0.211   1446.3
 170.0   -0.89   -0.90   34.44   27.72    38.0   0.215   1447.1
 180.0   -0.74   -0.74   34.50   27.76    34.4   0.219   1448.1
 190.0   -0.56   -0.57   34.55   27.79    31.1   0.222   1449.1
 200.0   -0.45   -0.46   34.59   27.82    28.7   0.225   1449.9
 210.0   -0.32   -0.33   34.63   27.84    26.4   0.228   1450.7
 220.0   -0.19   -0.20   34.66   27.86    24.6   0.230   1451.5
 230.0   -0.05   -0.06   34.69   27.88    23.0   0.233   1452.3
 240.0    0.04    0.03   34.72   27.90    21.2   0.235   1453.0
 250.0    0.15    0.14   34.75   27.92    19.5   0.237   1453.7
 260.0    0.27    0.26   34.78   27.94    18.1   0.239   1454.4
 270.0    0.31    0.30   34.79   27.94    17.5   0.241   1454.8
 280.0    0.37    0.35   34.81   27.95    16.8   0.243   1455.2
 290.0    0.46    0.44   34.84   27.97    14.9   0.244   1455.9
 300.0    0.51    0.49   34.85   27.98    14.7   0.246   1456.2
 310.0    0.54    0.53   34.85   27.98    14.4   0.247   1456.6
 320.0    0.57    0.56   34.86   27.98    14.0   0.249   1456.9
 330.0    0.57    0.56   34.86   27.98    14.1   0.250   1457.1
 340.0    0.60    0.59   34.86   27.98    14.1   0.251   1457.4
 350.0    0.63    0.61   34.88   28.00    12.8   0.253   1457.7
 370.0    0.67    0.65   34.89   28.00    12.7   0.255   1458.2
 390.0    0.69    0.67   34.90   28.00    12.4   0.258   1458.6
 410.0    0.64    0.62   34.89   28.00    12.7   0.260   1458.7
 430.0    0.61    0.59   34.90   28.01    11.8   0.263   1459.0
 450.0    0.59    0.57   34.90   28.01    11.7   0.265   1459.2
 470.0    0.55    0.53   34.90   28.01    11.2   0.268   1459.4
 490.0    0.49    0.47   34.90   28.01    11.2   0.270   1459.4
 510.0    0.45    0.43   34.90   28.02    10.5   0.272   1459.6
 530.0    0.41    0.39   34.90   28.03    10.0   0.274   1459.7
 550.0    0.34    0.32   34.90   28.03     9.6   0.276   1459.7
 570.0    0.32    0.29   34.90   28.03     9.3   0.278   1459.9
 590.0    0.27    0.25   34.90   28.03     9.3   0.280   1460.1
 610.0    0.24    0.21   34.90   28.04     8.8   0.282   1460.3
 630.0    0.18    0.15   34.90   28.04     8.5   0.283   1460.3
 650.0    0.15    0.12   34.91   28.04     8.1   0.285   1460.5
 670.0    0.11    0.09   34.91   28.05     7.7   0.287   1460.7
 690.0    0.08    0.05   34.91   28.05     7.2   0.288   1460.9
 698.0    0.07    0.04   34.91   28.05     7.5   0.289   1461.0

                         DEPTH        TEMP.        SALIN
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```
 FRAM 1  STATION  69(1) CTD  29/APR/1979 1857 GMT  CODE = 1
LAT = 84.2144N LNG =    7.9466W LTER =        1.  LGER =      2.
AIR TEMP = -22.1 BAROM = 1035.9 WIND = 335.0 SPEED =    4.0

DEPTH     TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.76   -1.76   32.36   26.06   195.9   0.000   1437.3
   3.1   -1.76   -1.76   32.36   26.06   195.9   0.006   1437.3
   5.0   -1.76   -1.76   32.37   26.07   194.9   0.010   1437.4
  10.0   -1.77   -1.77   32.41   26.10   191.8   0.020   1437.5
  15.0   -1.77   -1.77   32.46   26.14   188.4   0.029   1437.6
  20.0   -1.77   -1.77   32.47   26.15   187.5   0.039   1437.7
  25.0   -1.77   -1.77   32.47   26.15   187.2   0.048   1437.8
  30.0   -1.77   -1.77   32.48   26.15   186.8   0.057   1437.9
  35.0   -1.77   -1.77   32.48   26.16   186.2   0.067   1438.0
  40.0   -1.77   -1.77   32.49   26.16   186.3   0.076   1438.1
  45.0   -1.77   -1.77   32.48   26.16   186.2   0.086   1438.2
  50.0   -1.77   -1.77   32.49   26.16   186.0   0.095   1438.3
  55.0   -1.77   -1.77   32.54   26.21   181.5   0.104   1438.4
  60.0   -1.77   -1.77   32.69   26.32   170.3   0.113   1438.7
  65.0   -1.77   -1.77   32.72   26.35   167.8   0.122   1438.8
  70.0   -1.78   -1.78   32.76   26.39   164.3   0.130   1438.9
  80.0   -1.74   -1.74   32.92   26.51   152.3   0.146   1439.5
  90.0   -1.68   -1.68   33.18   26.72   132.5   0.160   1440.3
 100.0   -1.63   -1.63   33.53   27.00   106.0   0.172   1441.2
 110.0   -1.52   -1.52   33.81   27.23    84.4   0.182   1442.3
 120.0   -1.47   -1.47   34.03   27.40    68.1   0.190   1443.0
 130.0   -1.39   -1.39   34.15   27.50    58.7   0.196   1443.7
 140.0   -1.26   -1.26   34.27   27.59    50.4   0.202   1444.7
 150.0   -1.14   -1.14   34.33   27.64    45.6   0.206   1445.5
 160.0   -1.05   -1.05   34.39   27.68    41.2   0.211   1446.2
 170.0   -0.89   -0.89   34.44   27.72    33.0   0.215   1447.1
 180.0   -0.77   -0.78   34.49   27.75    34.6   0.218   1447.9
 190.0   -0.58   -0.58   34.55   27.79    31.2   0.222   1449.1
 200.0   -0.48   -0.49   34.58   27.81    29.4   0.225   1449.7
 210.0   -0.35   -0.36   34.61   27.83    27.6   0.228   1450.5
 220.0   -0.18   -0.19   34.66   27.86    24.6   0.230   1451.5
 230.0   -0.07   -0.08   34.69   27.88    23.2   0.233   1452.2
 240.0    0.07    0.06   34.74   27.91    20.3   0.235   1453.1
 250.0    0.22    0.21   34.77   27.93    18.5   0.237   1454.0
 260.0    0.30    0.29   34.80   27.95    17.0   0.239   1454.6
 270.0    0.33    0.31   34.80   27.95    17.0   0.240   1454.9
 280.0    0.41    0.39   34.82   27.96    16.0   0.242   1455.4
 290.0    0.45    0.43   34.84   27.97    14.9   0.244   1455.8
 300.0    0.50    0.49   34.85   27.98    14.3   0.245   1456.2
 310.0    0.53    0.51   34.85   27.98    14.4   0.247   1456.5
 320.0    0.56    0.55   34.86   27.99    13.8   0.248   1456.9
 330.0    0.57    0.56   34.86   27.98    14.4   0.249   1457.1
 340.0    0.60    0.59   34.87   27.99    13.3   0.251   1457.4
 350.0    0.63    0.61   34.88   27.99    13.4   0.252   1457.7
 370.0    0.65    0.63   34.83   27.99    13.1   0.255   1458.1
 390.0    0.69    0.67   34.89   28.00    12.6   0.257   1458.6
 410.0    0.64    0.62   34.89   28.00    12.2   0.260   1458.8
 430.0    0.61    0.59   34.90   28.01    11.7   0.262   1458.9
 450.0    0.57    0.55   34.90   28.02    11.0   0.265   1459.1
 470.0    0.56    0.53   34.90   28.02    11.2   0.267   1459.4
 490.0    0.50    0.48   34.91   28.02    10.2   0.269   1459.5
 510.0    0.45    0.42   34.90   28.02    10.6   0.271   1459.5
 530.0    0.41    0.39   34.90   28.02    10.4   0.273   1459.7
 550.0    0.36    0.33   34.90   28.03     9.7   0.275   1459.8
 570.0    0.30    0.27   34.90   28.03     9.3   0.277   1459.9
 590.0    0.27    0.25   34.91   28.04     8.9   0.279   1460.1
 610.0    0.23    0.20   34.91   28.04     8.4   0.281   1460.2
 630.0    0.18    0.16   34.90   28.04     8.5   0.282   1460.3
 650.0    0.14    0.11   34.91   28.04     8.1   0.284   1460.5
 670.0    0.11    0.08   34.91   28.05     7.3   0.286   1460.7
 690.0    0.09    0.06   34.90   28.04     7.9   0.287   1460.9

                          DEPTH        TEMP.        SALIN

        BOT NUM = 1         3.4        -1.76
        BOT NUM = 2        40.6        -1.77        32.48
        BOT NUM = 3       390.1         0.69        34.88
        BOT NUM = 4       699.6         0.08        34.90
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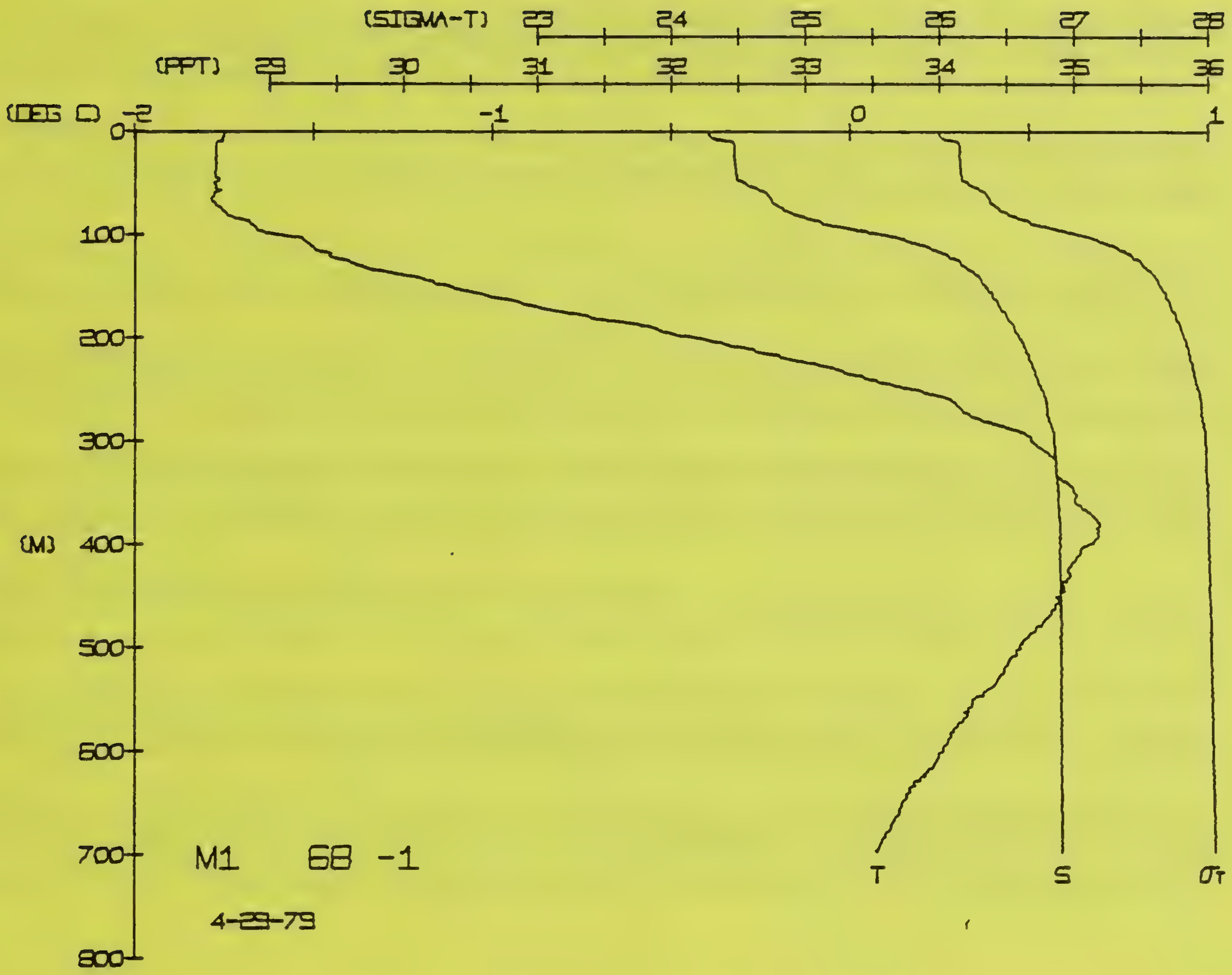
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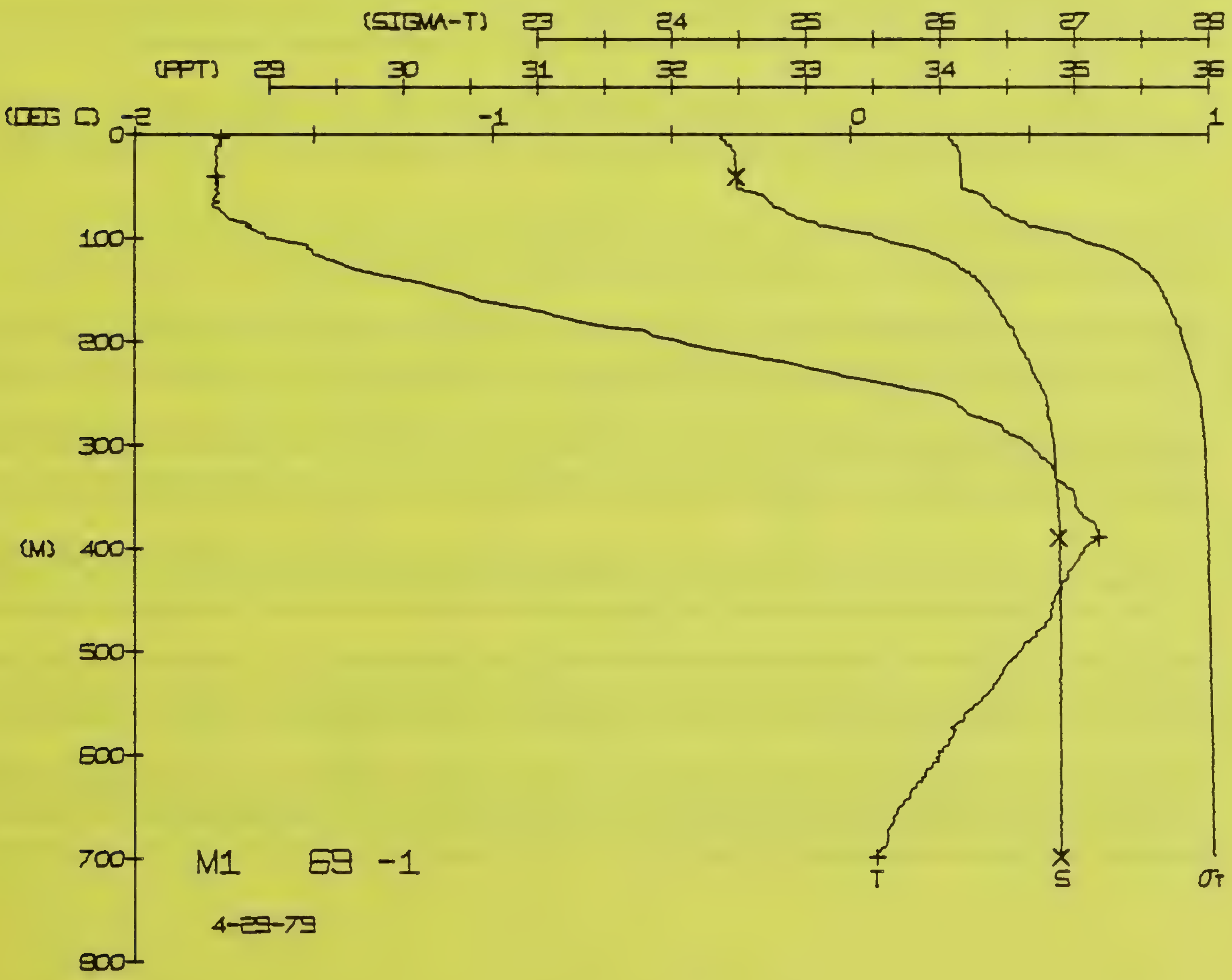
T
S
σT
M1 68 -1
4-29-79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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
T
S
σT
M1 69 -1
4-29-79

```
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LAT = 84.2029N LNG =    7.9559W LTER =      0. LGER =      0.
AIR TEMP = -22.1 BAROM = 1038.6 WIND = 335.0 SPEED =    4.0

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.44   26.12   189.8   0.000   1437.4
   3.3   -1.77   -1.77   32.44   26.12   189.8   0.006   1437.4
   5.0   -1.77   -1.77   32.44   26.12   189.9   0.010   1437.4
  10.0   -1.77   -1.77   32.43   26.12   190.2   0.019   1437.5
  15.0   -1.77   -1.77   32.46   26.14   188.2   0.029   1437.6
  20.0   -1.77   -1.77   32.47   26.15   187.2   0.038   1437.7
  25.0   -1.77   -1.77   32.47   26.15   187.3   0.048   1437.8
  30.0   -1.77   -1.77   32.47   26.15   187.1   0.057   1437.9
  35.0   -1.77   -1.77   32.47   26.15   187.3   0.066   1438.0
  40.0   -1.77   -1.77   32.47   26.15   187.1   0.076   1438.0
  45.0   -1.77   -1.77   32.47   26.15   187.0   0.085   1438.1
  50.0   -1.77   -1.77   32.48   26.16   186.3   0.095   1438.2
  55.0   -1.76   -1.76   32.56   26.22   180.0   0.104   1438.5
  60.0   -1.75   -1.75   32.65   26.29   173.1   0.113   1438.7
  65.0   -1.76   -1.76   32.75   26.37   165.7   0.121   1438.9
  70.0   -1.76   -1.76   32.78   26.40   163.2   0.130   1439.0
  80.0   -1.74   -1.74   32.89   26.49   154.3   0.146   1439.5
  90.0   -1.66   -1.66   33.18   26.72   132.4   0.160   1440.4
 100.0   -1.63   -1.63   33.53   27.00   106.1   0.172   1441.2
 110.0   -1.51   -1.52   33.83   27.25    82.7   0.182   1442.4
 120.0   -1.47   -1.47   34.02   27.39    68.6   0.189   1443.0
 130.0   -1.40   -1.40   34.16   27.50    58.2   0.196   1443.7
 140.0   -1.31   -1.32   34.24   27.57    52.0   0.201   1444.4
 150.0   -1.16   -1.16   34.33   27.63    45.9   0.206   1445.4
 160.0   -1.03   -1.03   34.40   27.68    41.2   0.210   1446.3
 170.0   -0.88   -0.89   34.45   27.72    37.7   0.214   1447.2
 180.0   -0.75   -0.75   34.50   27.76    34.2   0.218   1448.0
 190.0   -0.59   -0.60   34.54   27.79    31.7   0.221   1449.0
 200.0   -0.45   -0.46   34.58   27.81    29.3   0.225   1449.8
 210.0   -0.36   -0.37   34.62   27.84    27.2   0.227   1450.5
 220.0   -0.21   -0.22   34.66   27.86    24.6   0.230   1451.4
 230.0   -0.09   -0.10   34.69   27.88    23.0   0.232   1452.2
 240.0    0.05    0.05   34.72   27.90    21.2   0.235   1453.0
 250.0    0.17    0.16   34.77   27.93    18.6   0.237   1453.8
 260.0    0.30    0.28   34.79   27.94    17.4   0.238   1454.6
 270.0    0.31    0.30   34.80   27.95    17.1   0.240   1454.8
 280.0    0.37    0.36   34.81   27.95    16.7   0.242   1455.2
 290.0    0.45    0.44   34.84   27.97    15.1   0.243   1455.8
 300.0    0.51    0.49   34.85   27.98    14.4   0.245   1456.3
 310.0    0.54    0.52   34.86   27.98    14.2   0.246   1456.6
 320.0    0.57    0.55   34.86   27.99    13.8   0.248   1456.9
 330.0    0.57    0.56   34.86   27.98    13.9   0.249   1457.1
 340.0    0.60    0.58   34.87   27.99    13.4   0.251   1457.4
 350.0    0.63    0.61   34.88   27.99    13.2   0.252   1457.7
 370.0    0.67    0.65   34.89   28.00    12.5   0.255   1458.2
 390.0    0.68    0.66   34.90   28.00    12.3   0.257   1458.6
 410.0    0.63    0.62   34.90   28.01    12.0   0.260   1458.7
 430.0    0.60    0.58   34.90   28.01    11.4   0.262   1458.9
 450.0    0.57    0.55   34.90   28.01    11.3   0.264   1459.1
 470.0    0.55    0.53   34.90   28.02    10.9   0.266   1459.3
 490.0    0.51    0.49   34.91   28.03    10.1   0.269   1459.5
 510.0    0.45    0.42   34.91   28.03    10.0   0.271   1459.5
 530.0    0.39    0.37   34.91   28.03     9.8   0.273   1459.6
 550.0    0.35    0.33   34.91   28.03     9.5   0.275   1459.8
 570.0    0.31    0.29   34.92   28.04     8.5   0.276   1459.9
 590.0    0.27    0.25   34.91   28.04     8.5   0.278   1460.1
 610.0    0.24    0.21   34.91   28.04     8.5   0.280   1460.3
 630.0    0.20    0.17   34.91   28.05     7.9   0.281   1460.4
 650.0    0.15    0.12   34.91   28.04     8.0   0.283   1460.5
 670.0    0.12    0.09   34.91   28.05     7.5   0.285   1460.7
 690.0    0.09    0.06   34.91   28.05     7.3   0.286   1461.0

                         DEPTH        TEMP.       SALIN

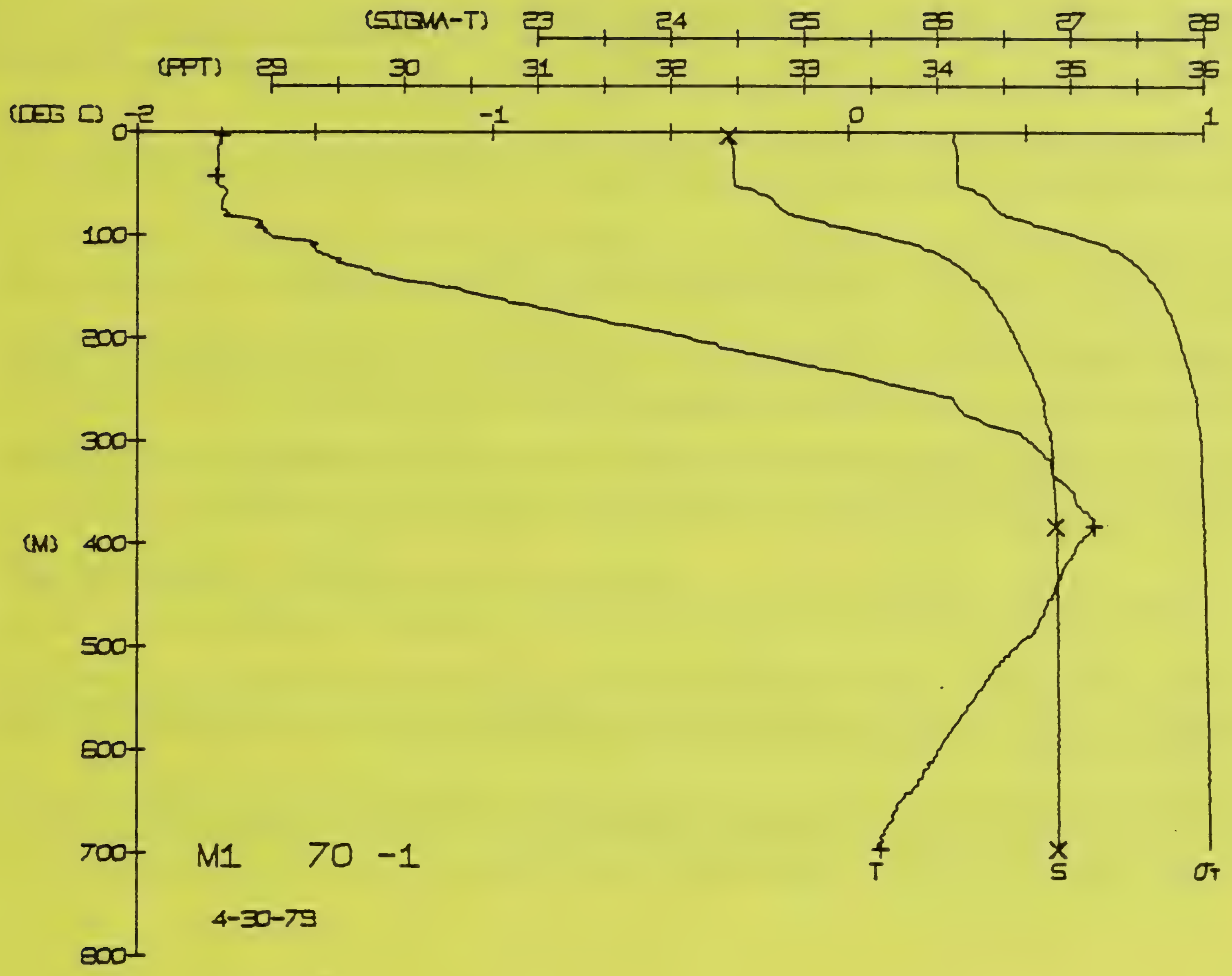
       BOT NUM = 1          3.6       -1.76       32.43
       BOT NUM = 2         42.5       -1.78
       BOT NUM = 3        384.0        0.69       34.88
       BOT NUM = 4        697.5        0.09       34.90
```

```
 FRAM 1  STATION  71(1) CTD  30/APR/1979 1301 GMT  CODE = 1
LAT = 84.1884N LNG =    7.9153W LTER =      4. LGER =     11.
AIR TEMP = -21.0 BAROM = 1037.7 WIND = 283.0 SPEED =    4.7

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.46   26.14   188.3   0.000   1437.4
   3.0   -1.77   -1.77   32.46   26.14   188.3   0.006   1437.4
   5.0   -1.77   -1.77   32.46   26.14   188.5   0.009   1437.5
  10.0   -1.77   -1.77   32.45   26.13   189.2   0.019   1437.5
  15.0   -1.77   -1.77   32.46   26.14   188.3   0.028   1437.6
  20.0   -1.77   -1.77   32.47   26.15   187.4   0.038   1437.7
  25.0   -1.77   -1.77   32.47   26.14   187.7   0.047   1437.8
  30.0   -1.77   -1.77   32.47   26.15   187.4   0.057   1437.9
  35.0   -1.77   -1.77   32.47   26.14   187.6   0.066   1438.0
  40.0   -1.77   -1.77   32.46   26.14   187.7   0.076   1438.0
  45.0   -1.77   -1.77   32.46   26.14   187.9   0.085   1438.1
  50.0   -1.77   -1.77   32.47   26.15   187.2   0.095   1438.2
  55.0   -1.76   -1.76   32.52   26.19   183.3   0.104   1438.4
  60.0   -1.75   -1.75   32.65   26.30   173.0   0.113   1438.7
  65.0   -1.76   -1.76   32.73   26.36   167.1   0.122   1438.9
  70.0   -1.77   -1.78   32.77   26.39   163.9   0.130   1439.0
  80.0   -1.74   -1.74   32.91   26.51   152.9   0.146   1439.5
  90.0   -1.64   -1.65   33.21   26.74   130.6   0.160   1440.5
 100.0   -1.63   -1.63   33.56   27.03   103.1   0.172   1441.3
 110.0   -1.47   -1.47   33.84   27.25    82.7   0.181   1442.6
 120.0   -1.46   -1.47   34.03   27.40    67.7   0.189   1443.0
 130.0   -1.39   -1.39   34.17   27.52    57.0   0.195   1443.7
 140.0   -1.28   -1.28   34.26   27.58    50.8   0.201   1444.6
 150.0   -1.14   -1.14   34.34   27.64    45.2   0.205   1445.5
 160.0   -0.99   -0.99   34.40   27.69    40.7   0.210   1446.5
 170.0   -0.87   -0.87   34.46   27.73    36.7   0.214   1447.3
 180.0   -0.73   -0.74   34.50   27.76    34.1   0.217   1448.1
 190.0   -0.59   -0.60   34.54   27.79    31.6   0.221   1449.0
 200.0   -0.44   -0.44   34.59   27.82    29.0   0.224   1449.9
 210.0   -0.34   -0.35   34.62   27.84    26.9   0.226   1450.6
 220.0   -0.22   -0.23   34.66   27.86    24.7   0.229   1451.4
 230.0   -0.08   -0.09   34.69   27.88    23.2   0.231   1452.2
 240.0    0.06    0.05   34.73   27.91    20.7   0.234   1453.1
 250.0    0.19    0.18   34.76   27.93    18.9   0.236   1453.9
 260.0    0.28    0.27   34.79   27.94    17.3   0.237   1454.5
 270.0    0.31    0.30   34.80   27.95    16.8   0.239   1454.8
 280.0    0.37    0.36   34.82   27.96    16.1   0.241   1455.3
 290.0    0.46    0.45   34.84   27.97    15.1   0.242   1455.9
 300.0    0.51    0.49   34.85   27.97    14.8   0.244   1456.3
 310.0    0.54    0.53   34.85   27.98    14.3   0.245   1456.6
 320.0    0.56    0.55   34.86   27.99    13.8   0.247   1456.9
 330.0    0.57    0.56   34.86   27.98    14.5   0.248   1457.1
 340.0    0.59    0.57   34.87   27.99    13.4   0.250   1457.3
 350.0    0.62    0.60   34.87   27.99    13.5   0.251   1457.6
 370.0    0.67    0.65   34.89   28.00    13.0   0.254   1458.2
 390.0    0.68    0.67   34.90   28.00    12.2   0.256   1458.6
 410.0    0.63    0.61   34.89   28.01    12.1   0.259   1458.7
 430.0    0.60    0.58   34.89   28.01    12.0   0.261   1458.9
 450.0    0.58    0.56   34.90   28.01    11.3   0.263   1459.1
 470.0    0.55    0.53   34.90   28.01    11.2   0.266   1459.3
 490.0    0.50    0.48   34.90   28.02    11.0   0.268   1459.5
 510.0    0.44    0.41   34.90   28.02    10.3   0.270   1459.5
 530.0    0.39    0.36   34.90   28.03     9.8   0.272   1459.6
 550.0    0.35    0.32   34.90   28.03     9.7   0.274   1459.7
 570.0    0.30    0.28   34.91   28.04     9.0   0.276   1459.9
 590.0    0.27    0.24   34.91   28.04     8.7   0.278   1460.1
 610.0    0.22    0.20   34.90   28.04     8.7   0.280   1460.2
 630.0    0.19    0.16   34.90   28.04     8.7   0.281   1460.4
 650.0    0.14    0.11   34.91   28.04     8.0   0.283   1460.5
 670.0    0.11    0.09   34.91   28.05     7.7   0.285   1460.7
 690.0    0.07    0.04   34.91   28.05     7.6   0.286   1460.8

                         DEPTH        TEMP.       SALIN
```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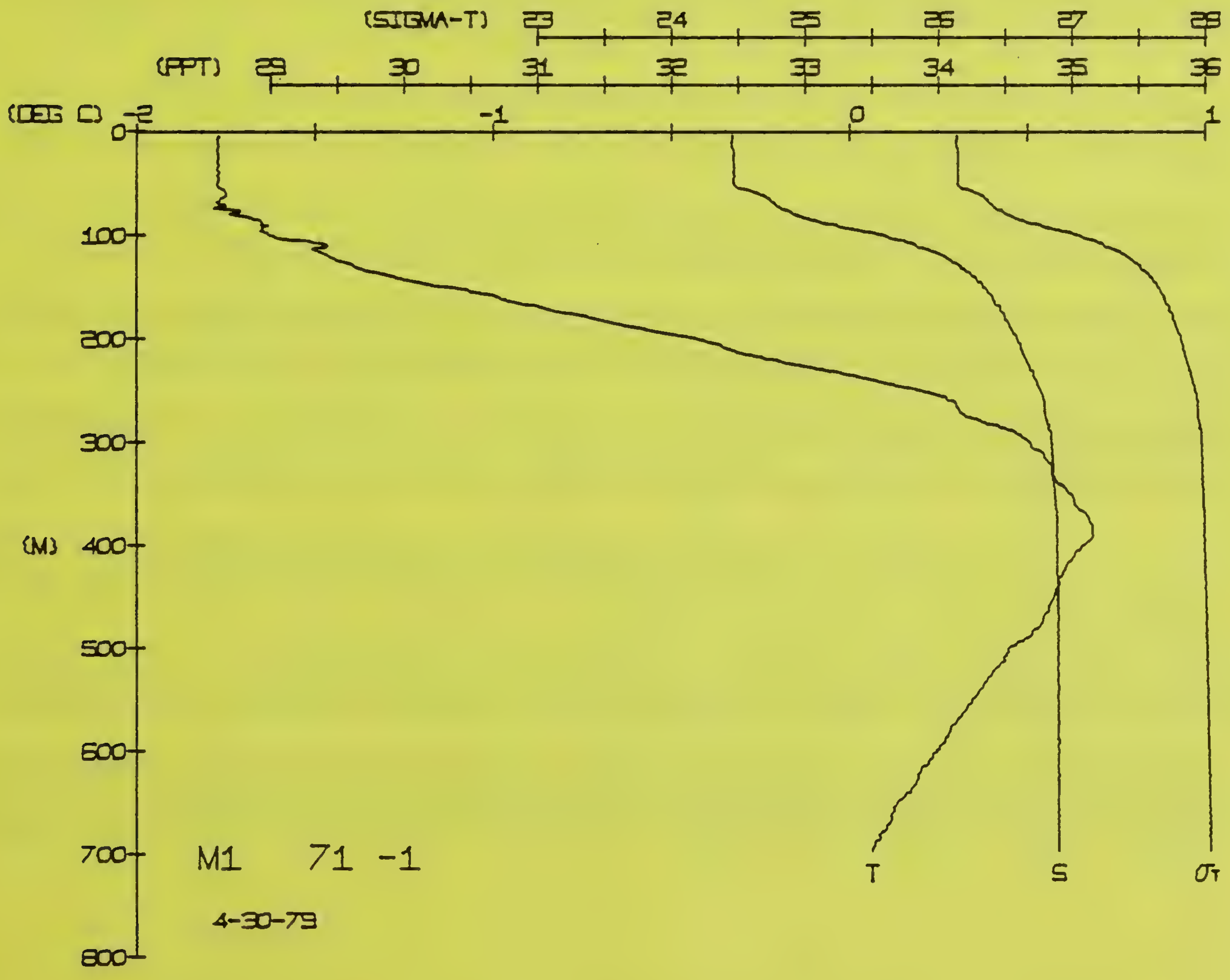
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
M1 71 -1
4-30-79
T
S
σT

```
 FRAM 1  STATION  72(1) CTD  30/APR/1979 1912 GMT  CODE = 1
LAT = 84.1739N LNG =   7.7871W LTER =      1. LGER =      1.
AIR TEMP = -21.0 BAROM = 1034.0 WIND = 283.0 SPEED =   4.7

 DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.77  -1.77   32.47   26.15   187.7   0.000  1437.4
   3.0  -1.77  -1.77   32.47   26.15   187.7   0.006  1437.4
   5.0  -1.77  -1.77   32.46   26.14   188.1   0.009  1437.5
  10.0  -1.77  -1.77   32.47   26.15   187.5   0.019  1437.6
  15.0  -1.77  -1.77   32.46   26.14   188.2   0.028  1437.6
  20.0  -1.77  -1.77   32.47   26.15   187.4   0.038  1437.7
  25.0  -1.77  -1.77   32.47   26.15   187.6   0.047  1437.8
  30.0  -1.77  -1.77   32.47   26.14   187.7   0.057  1437.9
  35.0  -1.77  -1.77   32.47   26.14   187.5   0.066  1438.0
  40.0  -1.77  -1.77   32.47   26.15   187.3   0.076  1438.0
  45.0  -1.77  -1.77   32.47   26.15   187.2   0.085  1438.1
  50.0  -1.77  -1.77   32.49   26.16   186.0   0.094  1438.2
  55.0  -1.77  -1.77   32.62   26.27   175.4   0.104  1438.5
  60.0  -1.76  -1.76   32.69   26.33   170.1   0.112  1438.7
  65.0  -1.78  -1.78   32.74   26.37   166.0   0.121  1438.8
  70.0  -1.78  -1.78   32.80   26.41   161.9   0.129  1439.0
  80.0  -1.71  -1.72   32.91   26.50   153.2   0.145  1439.6
  90.0  -1.63  -1.63   33.20   26.74   131.1   0.159  1440.6
 100.0  -1.62  -1.62   33.57   27.04   102.5   0.171  1441.3
 110.0  -1.51  -1.51   33.86   27.27    80.5   0.180  1442.4
 120.0  -1.45  -1.46   34.07   27.43    65.0   0.188  1443.1
 130.0  -1.38  -1.38   34.17   27.51    57.4   0.194  1443.8
 140.0  -1.30  -1.30   34.25   27.58    51.2   0.199  1444.5
 150.0  -1.18  -1.19   34.33   27.64    45.3   0.204  1445.3
 160.0  -1.01  -1.01   34.40   27.68    41.3   0.208  1446.3
 170.0  -0.89  -0.89   34.45   27.72    37.6   0.212  1447.2
 180.0  -0.74  -0.75   34.50   27.76    34.5   0.216  1448.1
 190.0  -0.61  -0.61   34.54   27.78    32.1   0.219  1448.9
 200.0  -0.46  -0.46   34.59   27.81    29.1   0.222  1449.8
 210.0  -0.33  -0.34   34.63   27.84    26.7   0.225  1450.6
 220.0  -0.21  -0.22   34.66   27.86    24.8   0.228  1451.4
 230.0  -0.07  -0.08   34.69   27.88    22.9   0.230  1452.3
 240.0   0.07   0.06   34.73   27.90    21.0   0.233  1453.1
 250.0   0.19   0.18   34.76   27.92    19.3   0.235  1453.9
 260.0   0.29   0.28   34.79   27.94    17.4   0.236  1454.5
 270.0   0.31   0.30   34.79   27.94    17.7   0.238  1454.8
 280.0   0.36   0.35   34.81   27.95    16.6   0.240  1455.2
 290.0   0.46   0.44   34.84   27.97    15.0   0.242  1455.8
 300.0   0.51   0.49   34.85   27.98    14.4   0.243  1456.3
 310.0   0.54   0.53   34.86   27.98    14.1   0.244  1456.6
 320.0   0.56   0.55   34.86   27.98    14.0   0.246  1456.9
 330.0   0.57   0.56   34.87   27.99    13.8   0.247  1457.1
 340.0   0.61   0.59   34.87   27.99    13.4   0.249  1457.4
 350.0   0.63   0.62   34.88   27.99    13.2   0.250  1457.7
 370.0   0.68   0.67   34.89   28.00    12.5   0.253  1458.3
 390.0   0.68   0.67   34.89   28.00    13.0   0.255  1458.6
 410.0   0.64   0.62   34.89   28.00    12.1   0.258  1458.7
 430.0   0.60   0.58   34.89   28.01    12.0   0.260  1458.9
 450.0   0.58   0.56   34.90   28.01    11.6   0.263  1459.1
 470.0   0.54   0.52   34.90   28.02    11.1   0.265  1459.3
 490.0   0.51   0.49   34.91   28.02    10.2   0.267  1459.5
 510.0   0.45   0.42   34.90   28.02    10.2   0.269  1459.5
 530.0   0.40   0.37   34.91   28.03     9.8   0.271  1459.7
 550.0   0.35   0.33   34.91   28.03     9.3   0.273  1459.8
 570.0   0.31   0.29   34.90   28.03     9.3   0.275  1459.9
 590.0   0.26   0.23   34.91   28.04     8.6   0.277  1460.0
 610.0   0.23   0.20   34.91   28.04     8.7   0.278  1460.2
 630.0   0.19   0.17   34.91   28.04     8.3   0.280  1460.4
 650.0   0.15   0.12   34.91   28.04     8.1   0.282  1460.5
 670.0   0.12   0.09   34.90   28.04     8.2   0.283  1460.7
 690.0   0.09   0.06   34.90   28.04     7.8   0.285  1460.9
 696.9   0.08   0.05   34.90   28.04     7.8   0.286  1461.0

                       DEPTH      TEMP.      SALIN

       BOT NUM = 1       3.6     -1.77      32.46
       BOT NUM = 2      45.7     -1.78      32.47
       BOT NUM = 3     383.2      0.69      34.88
       BOT NUM = 4     697.7      0.09      34.90
```

```
 FRAM 1  STATION  73(1) CTD   1/MAY/1979  707 GMT  CODE = 1
LAT = 84.1424N LNG =   7.5361W LTER =      0. LGER =      1.
AIR TEMP = -18.9 BAROM = 1026.5 WIND = 300.0 SPEED =   7.2

 DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.77  -1.77   32.47   26.14   187.9   0.000  1437.4
   3.1  -1.77  -1.77   32.47   26.14   187.9   0.006  1437.4
   5.0  -1.77  -1.77   32.47   26.15   187.3   0.009  1437.5
  10.0  -1.77  -1.77   32.47   26.15   187.4   0.019  1437.6
  15.0  -1.77  -1.77   32.47   26.15   187.2   0.028  1437.6
  20.0  -1.77  -1.77   32.47   26.15   187.2   0.038  1437.7
  25.0  -1.77  -1.77   32.48   26.15   186.9   0.047  1437.8
  30.0  -1.77  -1.77   32.48   26.15   186.7   0.057  1437.9
  35.0  -1.77  -1.77   32.48   26.16   186.2   0.066  1438.0
  40.0  -1.77  -1.77   32.48   26.16   186.3   0.075  1438.1
  45.0  -1.77  -1.77   32.49   26.16   186.2   0.085  1438.2
  50.0  -1.78  -1.78   32.53   26.20   182.2   0.094  1438.3
  55.0  -1.78  -1.78   32.60   26.25   177.3   0.103  1438.5
  60.0  -1.78  -1.78   32.69   26.32   170.2   0.112  1438.6
  65.0  -1.77  -1.77   32.77   26.39   164.2   0.120  1438.9
  70.0  -1.78  -1.78   32.81   26.42   161.0   0.128  1439.0
  80.0  -1.76  -1.77   32.89   26.49   154.5   0.144  1439.3
  90.0  -1.65  -1.65   33.16   26.70   134.2   0.159  1440.4
 100.0  -1.61  -1.62   33.51   26.98   107.6   0.171  1441.3
 110.0  -1.50  -1.50   33.84   27.25    82.0   0.181  1442.4
 120.0  -1.48  -1.48   34.02   27.40    68.2   0.188  1443.0
 130.0  -1.40  -1.40   34.15   27.50    58.8   0.195  1443.7
 140.0  -1.30  -1.30   34.25   27.58    51.2   0.200  1444.4
 150.0  -1.19  -1.19   34.32   27.63    46.1   0.205  1445.2
 160.0  -1.06  -1.07   34.39   27.68    41.6   0.209  1446.1
 170.0  -0.88  -0.89   34.44   27.72    38.3   0.214  1447.2
 180.0  -0.77  -0.77   34.49   27.75    35.2   0.217  1447.9
 190.0  -0.65  -0.66   34.53   27.78    32.7   0.221  1448.7
 200.0  -0.49  -0.50   34.57   27.80    30.0   0.224  1449.7
 210.0  -0.37  -0.38   34.61   27.83    27.7   0.227  1450.4
 220.0  -0.22  -0.22   34.65   27.86    25.4   0.229  1451.4
 230.0  -0.09  -0.10   34.69   27.88    23.3   0.232  1452.1
 240.0   0.06   0.05   34.73   27.90    21.0   0.234  1453.1
 250.0   0.19   0.18   34.77   27.93    18.8   0.236  1453.9
 260.0   0.29   0.28   34.79   27.94    17.5   0.238  1454.5
 270.0   0.31   0.30   34.80   27.95    17.0   0.240  1454.8
 280.0   0.37   0.36   34.81   27.95    16.6   0.241  1455.3
 290.0   0.46   0.45   34.84   27.97    15.1   0.243  1455.9
 300.0   0.51   0.50   34.85   27.98    14.2   0.244  1456.3
 310.0   0.54   0.52   34.85   27.98    14.4   0.246  1456.6
 320.0   0.56   0.55   34.86   27.98    14.0   0.247  1456.9
 330.0   0.57   0.56   34.86   27.98    13.9   0.249  1457.1
 340.0   0.60   0.59   34.87   27.99    13.6   0.250  1457.4
 350.0   0.63   0.61   34.89   27.99    13.0   0.251  1457.7
 370.0   0.67   0.65   34.89   28.00    13.0   0.254  1458.2
 390.0   0.69   0.67   34.89   28.00    12.7   0.257  1458.6
 410.0   0.64   0.62   34.89   28.01    12.1   0.259  1458.7
 430.0   0.60   0.58   34.90   28.01    11.9   0.262  1458.9
 450.0   0.58   0.56   34.90   28.01    11.5   0.264  1459.1
 470.0   0.55   0.53   34.90   28.02    10.9   0.266  1459.3
 490.0   0.51   0.49   34.91   28.02    10.2   0.268  1459.5
 510.0   0.47   0.45   34.91   28.02    10.2   0.270  1459.6
 530.0   0.41   0.39   34.91   28.03     9.7   0.272  1459.7
 550.0   0.36   0.33   34.90   28.03     9.8   0.274  1459.8
 570.0   0.32   0.29   34.90   28.03     9.3   0.276  1459.9
 590.0   0.27   0.25   34.90   28.03     9.1   0.278  1460.1
 610.0   0.22   0.20   34.91   28.04     8.2   0.280  1460.2
 630.0   0.18   0.16   34.91   28.04     8.2   0.282  1460.3
 650.0   0.16   0.13   34.91   28.04     8.2   0.283  1460.6
 670.0   0.12   0.09   34.91   28.04     7.9   0.285  1460.7
 690.0   0.10   0.07   34.91   28.05     7.3   0.286  1461.0
 697.4   0.08   0.05   34.91   28.05     7.2   0.287  1461.0

                       DEPTH      TEMP.      SALIN

       BOT NUM = 1       3.4                 32.47
       BOT NUM = 2      40.2     -1.78
       BOT NUM = 3     418.6      0.63      34.88
       BOT NUM = 4     698.2      0.09      34.90
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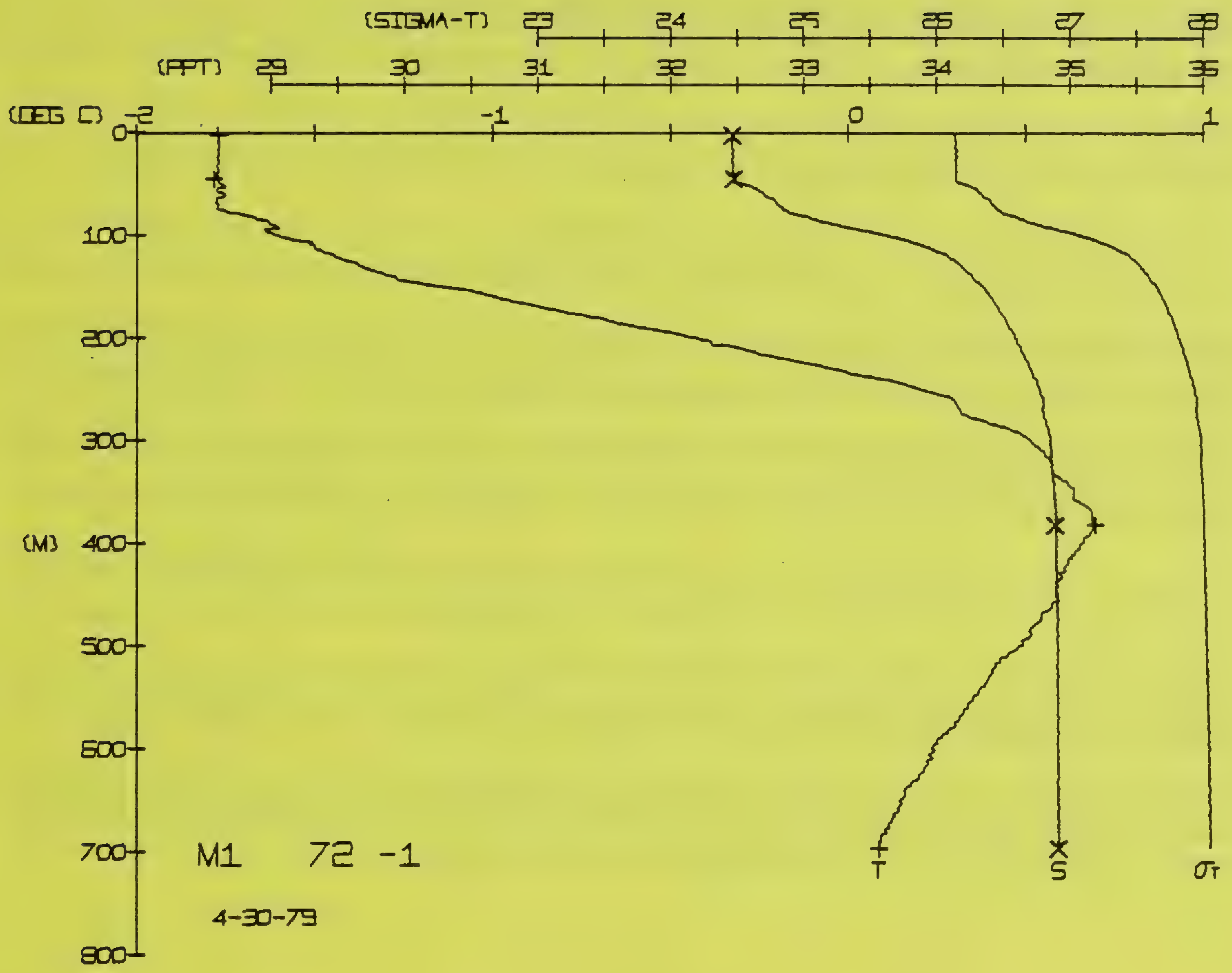
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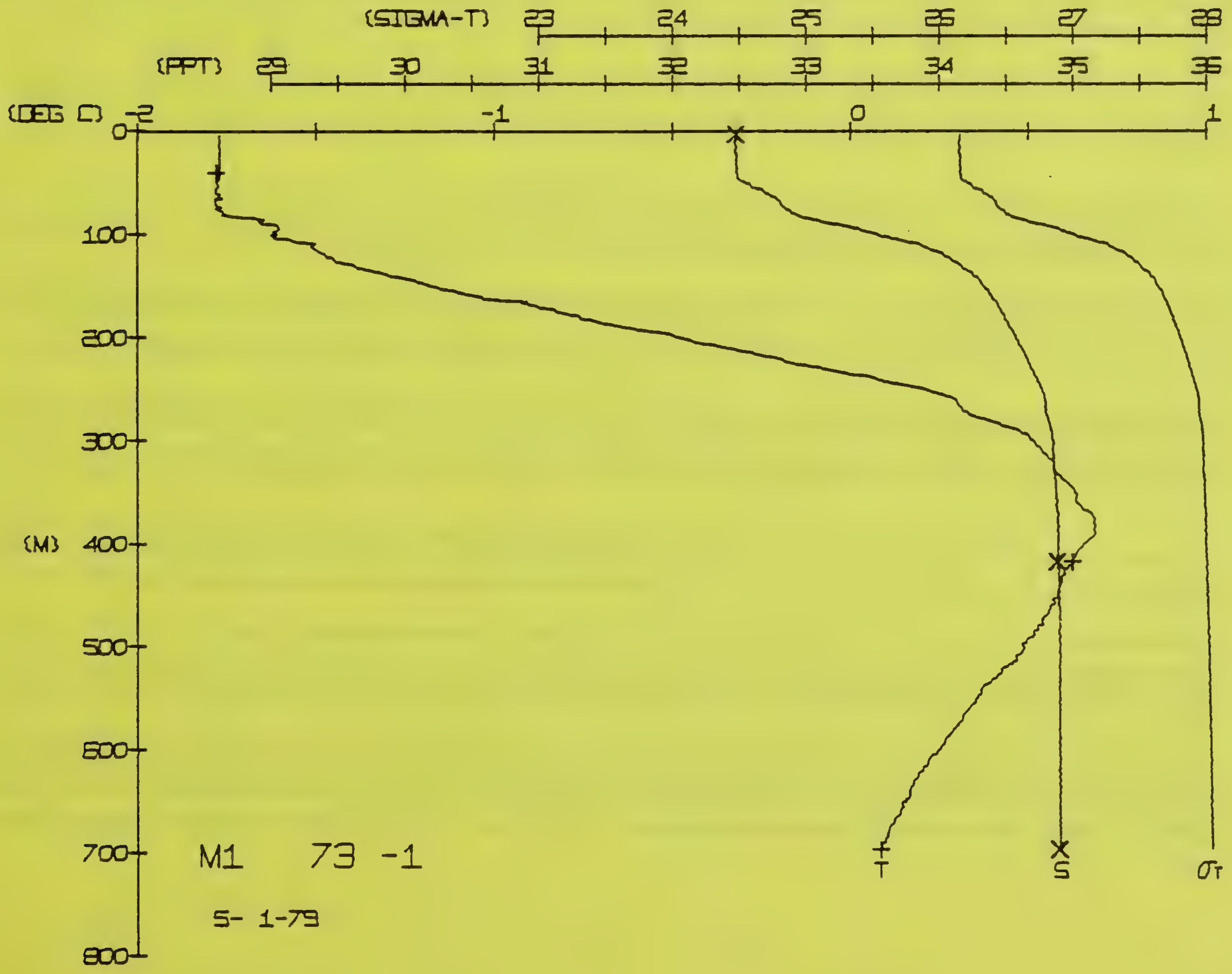
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M)
0
100
200
300
400
500
600
700
800
M1 72 -1
4-30-79
T
S
σT


(SIGMA-T) 23 24 25 26 27 28
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M)
0
100
200
300
400
500
600
700
800
M1 73 -1
5- 1-79
T
S
σT

```
 FRAM 1  STATION  74(1) CTD   1/MAY/1979 1254 GMT  CODE = 1
LAT = 84. 1204N LNG =    7. 3998W LTER =      0.  LGER =      0.
AIR TEMP = -18. 9 BAROM = 1025. 2 WIND = 300. 0 SPEED =    7. 2

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 77  -1. 77  32. 45  26. 13  188. 8  0. 000  1437. 4
   3. 1  -1. 77  -1. 77  32. 45  26. 13  188. 8  0. 006  1437. 4
   5. 0  -1. 77  -1. 77  32. 45  26. 13  189. 3  0. 010  1437. 4
  10. 0  -1. 77  -1. 78  32. 46  26. 14  188. 3  0. 019  1437. 5
  15. 0  -1. 77  -1. 77  32. 47  26. 15  187. 3  0. 028  1437. 6
  20. 0  -1. 77  -1. 77  32. 47  26. 15  187. 2  0. 038  1437. 7
  25. 0  -1. 77  -1. 77  32. 48  26. 15  186. 8  0. 047  1437. 8
  30. 0  -1. 77  -1. 77  32. 48  26. 16  186. 4  0. 057  1437. 9
  35. 0  -1. 77  -1. 77  32. 48  26. 15  186. 7  0. 066  1438. 0
  40. 0  -1. 77  -1. 77  32. 48  26. 15  186. 6  0. 076  1438. 1
  45. 0  -1. 77  -1. 77  32. 48  26. 15  186. 8  0. 085  1438. 1
  50. 0  -1. 77  -1. 78  32. 53  26. 20  182. 2  0. 094  1438. 3
  55. 0  -1. 77  -1. 77  32. 66  26. 31  172. 1  0. 103  1438. 6
  60. 0  -1. 79  -1. 79  32. 73  26. 36  166. 8  0. 112  1438. 7
  65. 0  -1. 79  -1. 79  32. 78  26. 40  163. 3  0. 120  1438. 8
  70. 0  -1. 79  -1. 79  32. 80  26. 42  161. 5  0. 128  1438. 9
  80. 0  -1. 78  -1. 78  32. 88  26. 48  155. 2  0. 144  1439. 3
  90. 0  -1. 63  -1. 63  33. 19  26. 73  131. 9  0. 159  1440. 6
 100. 0  -1. 62  -1. 63  33. 55  27. 02  104. 5  0. 171  1441. 3
 110. 0  -1. 51  -1. 51  33. 83  27. 24   83. 2  0. 180  1442. 4
 120. 0  -1. 46  -1. 46  34. 01  27. 39   69. 5  0. 188  1443. 0
 130. 0  -1. 41  -1. 42  34. 15  27. 50   58. 9  0. 194  1443. 6
 140. 0  -1. 29  -1. 29  34. 26  27. 58   50. 9  0. 200  1444. 5
 150. 0  -1. 19  -1. 20  34. 32  27. 63   46. 2  0. 205  1445. 2
 160. 0  -1. 07  -1. 08  34. 38  27. 68   41. 9  0. 209  1446. 0
 170. 0  -0. 90  -0. 91  34. 44  27. 72   38. 2  0. 213  1447. 1
 180. 0  -0. 72  -0. 73  34. 50  27. 76   34. 4  0. 217  1448. 1
 190. 0  -0. 57  -0. 58  34. 54  27. 79   31. 7  0. 220  1449. 1
 200. 0  -0. 44  -0. 45  34. 58  27. 81   29. 3  0. 223  1449. 9
 210. 0  -0. 34  -0. 34  34. 61  27. 83   27. 7  0. 226  1450. 6
 220. 0  -0. 20  -0. 20  34. 65  27. 86   25. 1  0. 229  1451. 5
 230. 0  -0. 08  -0. 09  34. 68  27. 88   23. 5  0. 231  1452. 2
 240. 0   0. 03   0. 03  34. 72  27. 90   21. 2  0. 233  1452. 9
 250. 0   0. 17   0. 16  34. 76  27. 92   19. 2  0. 235  1453. 8
 260. 0   0. 26   0. 25  34. 78  27. 94   18. 1  0. 237  1454. 4
 270. 0   0. 31   0. 30  34. 79  27. 94   17. 4  0. 239  1454. 8
 280. 0   0. 35   0. 34  34. 80  27. 95   16. 9  0. 241  1455. 2
 290. 0   0. 41   0. 40  34. 82  27. 96   16. 1  0. 243  1455. 6
 300. 0   0. 49   0. 47  34. 85  27. 98   14. 6  0. 244  1456. 2
 310. 0   0. 53   0. 51  34. 85  27. 98   14. 6  0. 246  1456. 5
 320. 0   0. 55   0. 54  34. 86  27. 98   14. 1  0. 247  1456. 8
 330. 0   0. 57   0. 56  34. 87  27. 99   13. 7  0. 248  1457. 1
 340. 0   0. 60   0. 58  34. 87  27. 99   13. 3  0. 250  1457. 4
 350. 0   0. 63   0. 61  34. 88  27. 99   13. 3  0. 251  1457. 7
 370. 0   0. 65   0. 64  34. 88  28. 00   13. 0  0. 254  1458. 1
 390. 0   0. 69   0. 67  34. 89  28. 00   12. 8  0. 256  1458. 6
 410. 0   0. 65   0. 63  34. 89  28. 00   12. 3  0. 259  1458. 8
 430. 0   0. 61   0. 59  34. 89  28. 01   12. 0  0. 261  1458. 9
 450. 0   0. 57   0. 55  34. 90  28. 01   11. 4  0. 264  1459. 1
 470. 0   0. 55   0. 53  34. 91  28. 02   10. 7  0. 266  1459. 3
 490. 0   0. 51   0. 49  34. 90  28. 02   10. 7  0. 268  1459. 5
 510. 0   0. 46   0. 44  34. 90  28. 02   10. 4  0. 270  1459. 6
 530. 0   0. 40   0. 38  34. 91  28. 03    9. 8  0. 272  1459. 7
 550. 0   0. 36   0. 33  34. 91  28. 03    9. 2  0. 274  1459. 8
 570. 0   0. 32   0. 29  34. 90  28. 03    9. 6  0. 276  1459. 9
 590. 0   0. 27   0. 24  34. 90  28. 03    9. 2  0. 278  1460. 1
 610. 0   0. 23   0. 20  34. 90  28. 04    8. 9  0. 280  1460. 2
 630. 0   0. 20   0. 17  34. 90  28. 04    8. 7  0. 282  1460. 4
 650. 0   0. 16   0. 13  34. 91  28. 04    8. 0  0. 283  1460. 6
 670. 0   0. 12   0. 09  34. 91  28. 04    7. 9  0. 285  1460. 7
 690. 0   0. 08   0. 05  34. 91  28. 05    7. 2  0. 287  1460. 9

                         DEPTH        TEMP.        SALIN
```

```
 FRAM 1  STATION  75(1) CTD   1/MAY/1979 1900 GMT  CODE = 1
LAT = 84. 0991N LNG =    7. 3065W LTER =      1.  LGER =      2.
AIR TEMP =         BAROM = 1024. 5 WIND = 303. 0 SPEED =    5. 1

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0. 0  -1. 76  -1. 76  32. 37  26. 07  195. 3  0. 000  1437. 3
   3. 1  -1. 76  -1. 76  32. 37  26. 07  195. 3  0. 006  1437. 3
   5. 0  -1. 77  -1. 77  32. 38  26. 07  194. 7  0. 010  1437. 4
  10. 0  -1. 77  -1. 77  32. 39  26. 08  193. 6  0. 020  1437. 5
  15. 0  -1. 77  -1. 77  32. 42  26. 10  191. 5  0. 029  1437. 6
  20. 0  -1. 77  -1. 77  32. 45  26. 13  189. 0  0. 039  1437. 7
  25. 0  -1. 77  -1. 77  32. 46  26. 14  188. 0  0. 048  1437. 8
  30. 0  -1. 77  -1. 77  32. 46  26. 14  187. 8  0. 058  1437. 9
  35. 0  -1. 76  -1. 77  32. 48  26. 16  186. 5  0. 067  1438. 0
  40. 0  -1. 76  -1. 76  32. 48  26. 16  186. 3  0. 077  1438. 1
  45. 0  -1. 76  -1. 77  32. 50  26. 17  184. 8  0. 086  1438. 2
  50. 0  -1. 77  -1. 77  32. 60  26. 25  177. 3  0. 095  1438. 4
  55. 0  -1. 78  -1. 78  32. 69  26. 33  170. 2  0. 104  1438. 6
  60. 0  -1. 79  -1. 79  32. 75  26. 38  165. 2  0. 112  1438. 7
  65. 0  -1. 79  -1. 79  32. 78  26. 40  162. 9  0. 121  1438. 8
  70. 0  -1. 79  -1. 79  32. 81  26. 42  160. 7  0. 129  1438. 9
  80. 0  -1. 78  -1. 79  32. 89  26. 48  155. 7  0. 145  1439. 2
  90. 0  -1. 71  -1. 71  33. 07  26. 63  141. 2  0. 160  1440. 0
 100. 0  -1. 63  -1. 63  33. 56  27. 03  103. 5  0. 172  1441. 3
 110. 0  -1. 52  -1. 52  33. 84  27. 25   82. 4  0. 181  1442. 4
 120. 0  -1. 46  -1. 46  34. 01  27. 39   69. 4  0. 189  1443. 0
 130. 0  -1. 42  -1. 43  34. 14  27. 49   59. 6  0. 196  1443. 5
 140. 0  -1. 31  -1. 32  34. 24  27. 57   52. 2  0. 201  1444. 4
 150. 0  -1. 18  -1. 19  34. 32  27. 63   46. 2  0. 206  1445. 3
 160. 0  -1. 04  -1. 05  34. 38  27. 68   41. 9  0. 211  1446. 2
 170. 0  -0. 93  -0. 94  34. 44  27. 71   38. 4  0. 215  1446. 9
 180. 0  -0. 78  -0. 79  34. 49  27. 75   34. 8  0. 218  1447. 8
 190. 0  -0. 59  -0. 60  34. 55  27. 79   31. 4  0. 222  1449. 0
 200. 0  -0. 45  -0. 45  34. 59  27. 82   29. 1  0. 225  1449. 9
 210. 0  -0. 32  -0. 32  34. 62  27. 84   26. 9  0. 228  1450. 7
 220. 0  -0. 21  -0. 22  34. 65  27. 86   25. 1  0. 230  1451. 4
 230. 0  -0. 08  -0. 09  34. 69  27. 88   22. 8  0. 233  1452. 2
 240. 0   0. 03   0. 02  34. 72  27. 90   21. 4  0. 235  1452. 9
 250. 0   0. 17   0. 16  34. 76  27. 92   19. 5  0. 237  1453. 8
 260. 0   0. 28   0. 27  34. 79  27. 94   17. 7  0. 239  1454. 5
 270. 0   0. 32   0. 31  34. 80  27. 94   17. 4  0. 241  1454. 8
 280. 0   0. 34   0. 33  34. 80  27. 94   17. 4  0. 242  1455. 1
 290. 0   0. 44   0. 43  34. 83  27. 97   15. 3  0. 244  1455. 8
 300. 0   0. 51   0. 49  34. 85  27. 98   14. 6  0. 245  1456. 2
 310. 0   0. 53   0. 52  34. 85  27. 98   14. 3  0. 247  1456. 5
 320. 0   0. 56   0. 55  34. 86  27. 98   14. 1  0. 248  1456. 9
 330. 0   0. 57   0. 56  34. 86  27. 98   14. 0  0. 250  1457. 1
 340. 0   0. 59   0. 57  34. 86  27. 98   14. 1  0. 251  1457. 3
 350. 0   0. 62   0. 60  34. 87  27. 99   13. 5  0. 253  1457. 6
 370. 0   0. 64   0. 62  34. 88  28. 00   12. 9  0. 255  1458. 1
 390. 0   0. 68   0. 67  34. 89  28. 00   12. 6  0. 258  1458. 6
 410. 0   0. 63   0. 61  34. 89  28. 00   12. 3  0. 260  1458. 7
 430. 0   0. 59   0. 57  34. 89  28. 01   12. 0  0. 263  1458. 8
 450. 0   0. 57   0. 55  34. 89  28. 01   11. 8  0. 265  1459. 1
 470. 0   0. 53   0. 51  34. 90  28. 01   11. 2  0. 268  1459. 3
 490. 0   0. 49   0. 46  34. 91  28. 02   10. 4  0. 270  1459. 4
 510. 0   0. 45   0. 42  34. 90  28. 02   10. 4  0. 272  1459. 5
 530. 0   0. 41   0. 38  34. 91  28. 03    9. 5  0. 274  1459. 7
 550. 0   0. 36   0. 33  34. 91  28. 03    9. 3  0. 276  1459. 8
 570. 0   0. 31   0. 28  34. 91  28. 03    9. 1  0. 278  1459. 9
 590. 0   0. 27   0. 25  34. 91  28. 04    9. 0  0. 279  1460. 1
 610. 0   0. 23   0. 21  34. 91  28. 04    8. 6  0. 281  1460. 2
 630. 0   0. 19   0. 17  34. 90  28. 04    8. 6  0. 283  1460. 4
 650. 0   0. 15   0. 12  34. 91  28. 05    7. 8  0. 285  1460. 5
 670. 0   0. 12   0. 09  34. 91  28. 04    7. 9  0. 286  1460. 7
 690. 0   0. 10   0. 07  34. 91  28. 05    7. 7  0. 288  1460. 9

                         DEPTH        TEMP.        SALIN

         BOT  NUM = 1      3. 6       -1. 76
         BOT  NUM = 2     38. 0       -1. 77        32. 48
         BOT  NUM = 3    385. 7        0. 67
         BOT  NUM = 4    703. 4        0. 07
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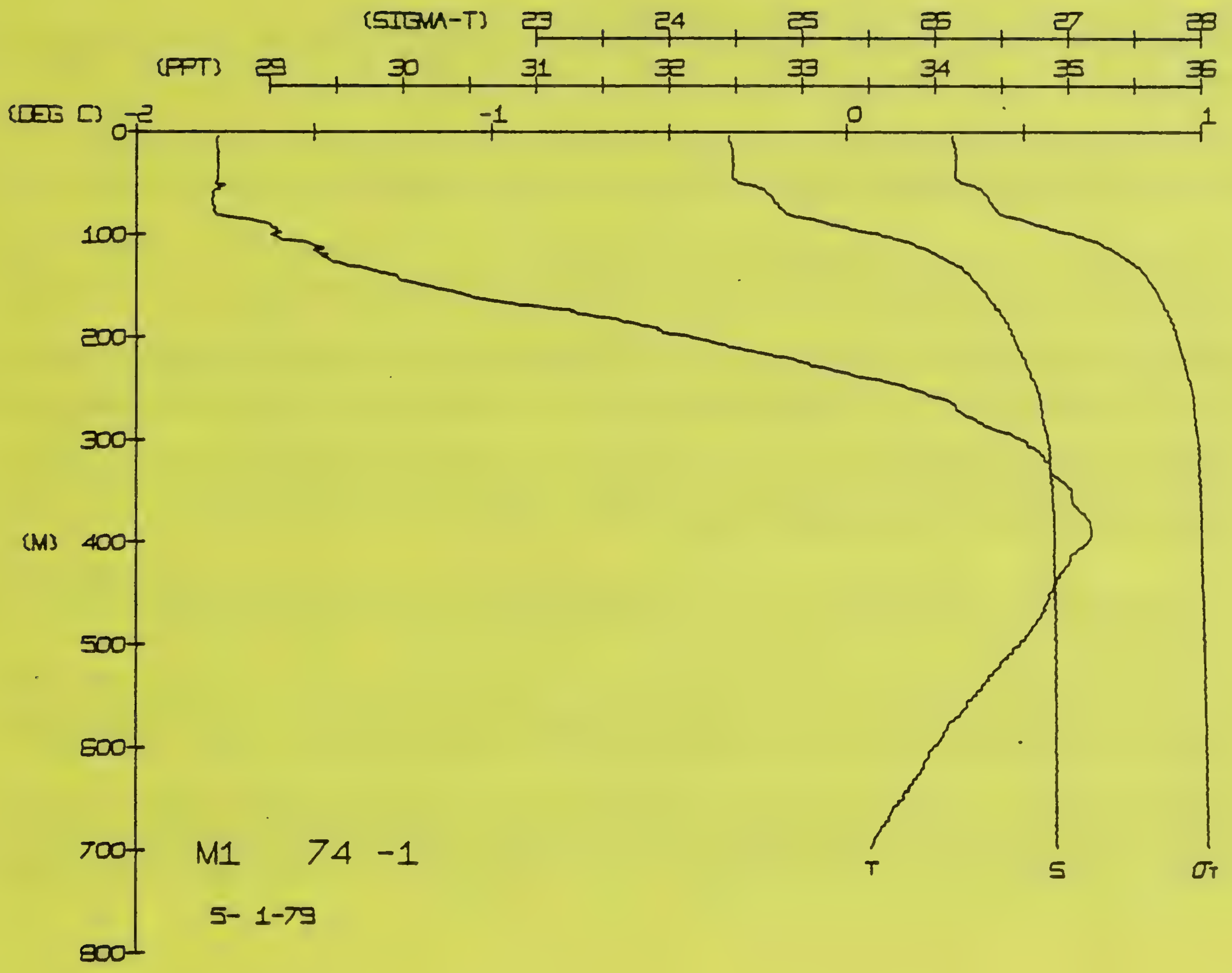
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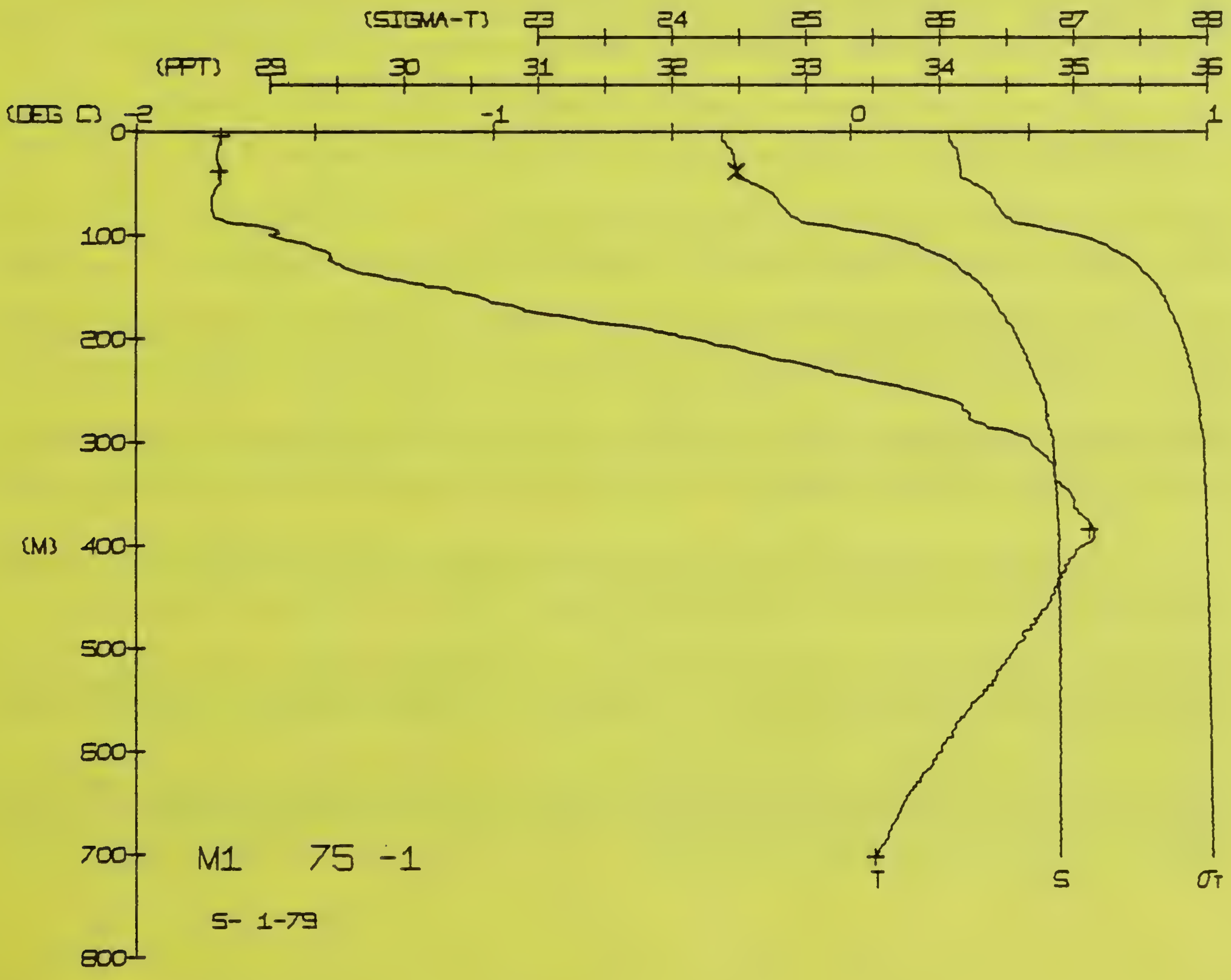
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
T
S
σT
M1 74 -1
5- 1-79


(SIGMA-T) 23 24 25 26 27 28
(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
(M) 0 100 200 300 400 500 600 700 800
T
S
σT
M1 75 -1
5- 1-79

```
 FRAM 1  STATION  76(1) CTD   2/MAY/1979  726 GMT  CODE = 1
LAT = 84.0644N LNG =   7.2461W LTER =      1. LGER =     1.
AIR TEMP =        BAROM = 1027.9 WIND = 303.0 SPEED =    5.1

 DEPTH   TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.77  -1.77   32.49   26.16   186.1   0.000   1437.5
   3.0  -1.77  -1.77   32.49   26.16   186.1   0.006   1437.5
   5.0  -1.76  -1.77   32.49   26.16   186.2   0.009   1437.5
  10.0  -1.76  -1.76   32.48   26.16   186.5   0.019   1437.6
  15.0  -1.76  -1.76   32.48   26.16   186.5   0.028   1437.7
  20.0  -1.76  -1.76   32.48   26.16   186.3   0.038   1437.8
  25.0  -1.76  -1.76   32.49   26.16   186.1   0.047   1437.9
  30.0  -1.76  -1.76   32.49   26.16   186.0   0.056   1437.9
  35.0  -1.76  -1.76   32.50   26.17   185.3   0.066   1438.1
  40.0  -1.76  -1.76   32.50   26.17   185.3   0.075   1438.1
  45.0  -1.76  -1.76   32.49   26.16   185.7   0.084   1438.2
  50.0  -1.77  -1.77   32.57   26.23   179.3   0.093   1438.4
  55.0  -1.77  -1.77   32.62   26.27   175.4   0.102   1438.5
  60.0  -1.78  -1.78   32.67   26.31   171.6   0.111   1438.6
  65.0  -1.78  -1.78   32.72   26.35   167.5   0.120   1438.8
  70.0  -1.78  -1.78   32.76   26.38   164.9   0.128   1438.9
  80.0  -1.77  -1.77   32.85   26.46   157.4   0.144   1439.3
  90.0  -1.65  -1.65   33.10   26.66   138.7   0.159   1440.3
 100.0  -1.60  -1.60   33.42   26.91   114.4   0.172   1441.2
 110.0  -1.54  -1.54   33.76   27.19    88.1   0.182   1442.1
 120.0  -1.48  -1.48   33.99   27.37    70.8   0.190   1442.9
 130.0  -1.43  -1.44   34.13   27.48    60.0   0.197   1443.5
 140.0  -1.32  -1.32   34.24   27.57    51.9   0.202   1444.3
 150.0  -1.21  -1.21   34.32   27.63    46.3   0.207   1445.1
 160.0  -1.11  -1.12   34.36   27.66    43.8   0.212   1445.8
 170.0  -0.98  -0.98   34.41   27.70    39.9   0.216   1446.7
 180.0  -0.84  -0.85   34.47   27.74    36.4   0.220   1447.5
 190.0  -0.71  -0.71   34.51   27.76    33.8   0.224   1448.4
 200.0  -0.57  -0.57   34.55   27.79    31.0   0.227   1449.3
 210.0  -0.39  -0.40   34.60   27.82    28.3   0.230   1450.3
 220.0  -0.25  -0.26   34.65   27.85    25.5   0.233   1451.2
 230.0  -0.12  -0.13   34.68   27.87    23.8   0.235   1452.0
 240.0   0.04   0.03   34.71   27.89    21.8   0.237   1452.9
 250.0   0.14   0.13   34.75   27.92    19.7   0.240   1453.6
 260.0   0.25   0.24   34.78   27.94    18.0   0.241   1454.4
 270.0   0.31   0.30   34.80   27.95    17.2   0.243   1454.8
 280.0   0.34   0.33   34.80   27.95    17.1   0.245   1455.1
 290.0   0.41   0.39   34.82   27.96    16.1   0.247   1455.6
 300.0   0.50   0.49   34.84   27.97    14.8   0.248   1456.2
 310.0   0.54   0.52   34.85   27.98    14.5   0.250   1456.6
 320.0   0.56   0.55   34.86   27.98    14.4   0.251   1456.9
 330.0   0.59   0.57   34.86   27.98    14.6   0.253   1457.1
 340.0   0.58   0.57   34.87   27.99    13.8   0.254   1457.3
 350.0   0.62   0.61   34.87   27.99    13.5   0.255   1457.6
 370.0   0.66   0.64   34.88   27.99    13.1   0.258   1458.1
 390.0   0.68   0.66   34.90   28.00    12.3   0.261   1458.6
 410.0   0.65   0.63   34.89   28.00    12.7   0.263   1458.8
 430.0   0.60   0.58   34.90   28.01    11.6   0.266   1458.9
 450.0   0.57   0.55   34.90   28.01    11.7   0.268   1459.1
 470.0   0.55   0.53   34.90   28.01    11.2   0.270   1459.4
 490.0   0.52   0.50   34.91   28.02    10.6   0.272   1459.5
 510.0   0.47   0.44   34.90   28.02    10.4   0.275   1459.6
 530.0   0.42   0.40   34.90   28.02    10.2   0.277   1459.7
 550.0   0.36   0.33   34.90   28.03     9.6   0.279   1459.8
 570.0   0.32   0.29   34.91   28.03     9.3   0.281   1460.0
 590.0   0.29   0.26   34.91   28.04     8.9   0.282   1460.2
 610.0   0.24   0.21   34.91   28.04     8.5   0.284   1460.3
 630.0   0.20   0.17   34.91   28.04     8.3   0.286   1460.4
 650.0   0.16   0.13   34.91   28.04     8.1   0.288   1460.6
 670.0   0.12   0.09   34.91   28.05     7.7   0.289   1460.7
 690.0   0.09   0.06   34.91   28.05     7.2   0.291   1460.9
 699.2   0.08   0.05   34.91   28.05     7.3   0.291   1461.1

                        DEPTH       TEMP.       SALIN

        BOT NUM = 1      3.4                    32.48
        BOT NUM = 2     45.6        -1.77       32.49
        BOT NUM = 3    384.1         0.69       34.88
        BOT NUM = 4    384.9         0.69       34.89
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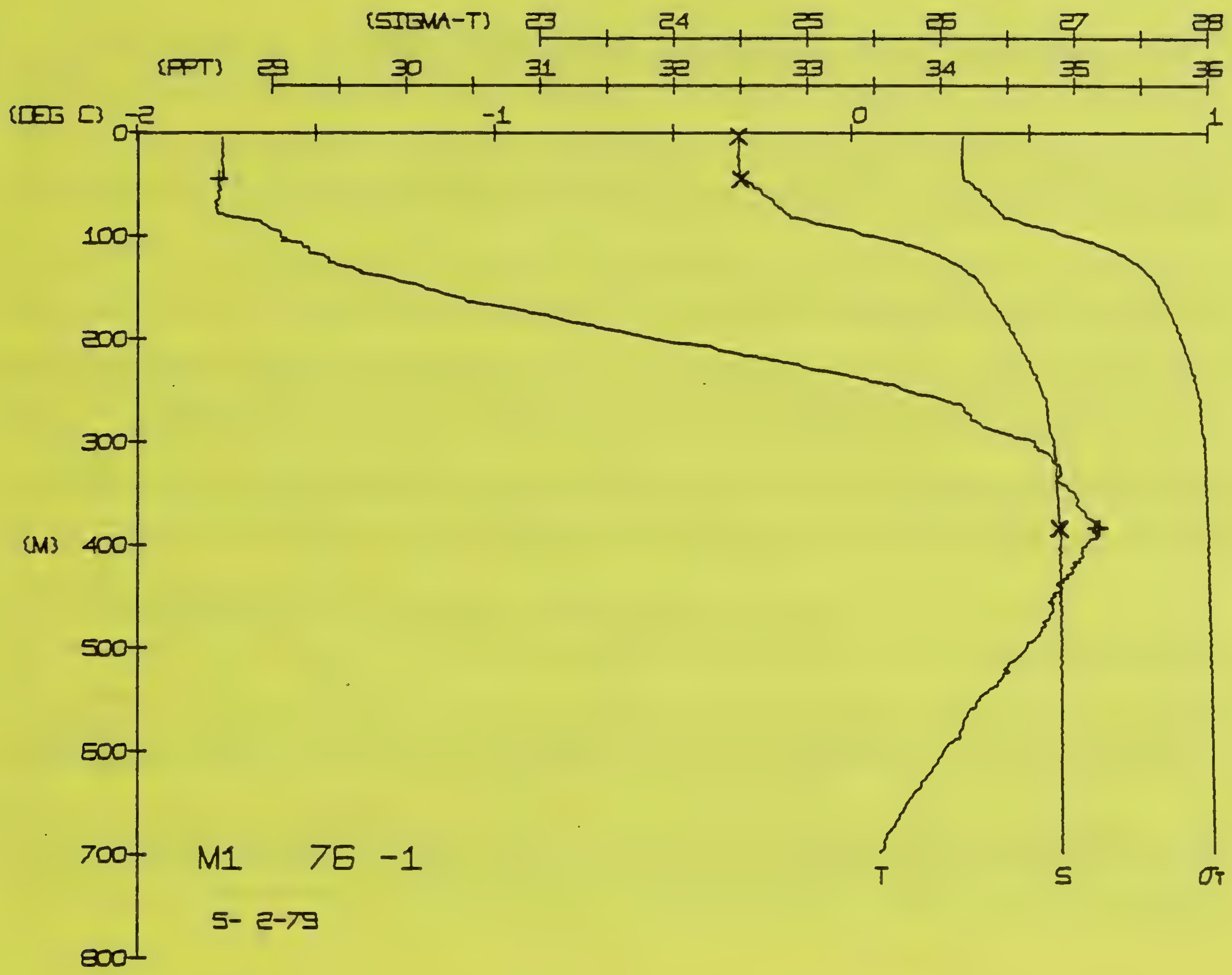
 FRAM 1  STATION  77(1) CTD   2/MAY/1979 1338 GMT  CODE = 1
LAT = 84.0390N LNG =   7.2701W LTER =      0. LGER =     0.
AIR TEMP = -15.4 BAROM = 1032.9 WIND = 343.0 SPEED =    7.3

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0  -1.76  -1.76   32.48   26.15   187.1   0.000   1437.4
   3.1  -1.76  -1.76   32.48   26.15   187.1   0.006   1437.5
   5.0  -1.76  -1.76   32.48   26.15   187.1   0.009   1437.5
  10.0  -1.76  -1.76   32.47   26.15   187.6   0.019   1437.6
  15.0  -1.77  -1.77   32.48   26.15   187.0   0.028   1437.7
  20.0  -1.77  -1.77   32.48   26.15   186.9   0.038   1437.8
  25.0  -1.77  -1.77   32.48   26.15   186.7   0.047   1437.8
  30.0  -1.77  -1.77   32.48   26.16   186.4   0.056   1437.9
  35.0  -1.77  -1.77   32.48   26.16   186.4   0.066   1438.0
  40.0  -1.77  -1.77   32.49   26.16   185.9   0.075   1438.1
  45.0  -1.77  -1.77   32.50   26.17   184.8   0.085   1438.2
  50.0  -1.77  -1.78   32.53   26.19   182.8   0.094   1438.3
  55.0  -1.77  -1.77   32.58   26.24   178.5   0.103   1438.5
  60.0  -1.77  -1.77   32.64   26.28   174.3   0.112   1438.6
  65.0  -1.78  -1.78   32.75   26.37   165.6   0.120   1438.8
  70.0  -1.78  -1.78   32.78   26.40   162.7   0.129   1439.0
  80.0  -1.76  -1.77   32.87   26.47   156.0   0.145   1439.3
  90.0  -1.64  -1.64   33.14   26.69   135.4   0.159   1440.5
 100.0  -1.62  -1.62   33.55   27.02   104.5   0.172   1441.3
 110.0  -1.53  -1.53   33.85   27.26    81.1   0.181   1442.3
 120.0  -1.49  -1.49   34.03   27.40    67.9   0.188   1442.9
 130.0  -1.42  -1.43   34.14   27.49    59.2   0.195   1443.5
 140.0  -1.33  -1.33   34.24   27.57    52.0   0.200   1444.3
 150.0  -1.19  -1.19   34.33   27.63    46.0   0.205   1445.2
 160.0  -1.06  -1.06   34.39   27.68    41.9   0.210   1446.1
 170.0  -0.93  -0.94   34.43   27.71    38.7   0.214   1446.9
 180.0  -0.82  -0.82   34.48   27.74    35.7   0.218   1447.7
 190.0  -0.69  -0.69   34.52   27.77    33.0   0.221   1448.5
 200.0  -0.54  -0.55   34.57   27.80    30.2   0.224   1449.4
 210.0  -0.41  -0.42   34.60   27.83    28.0   0.227   1450.2
 220.0  -0.27  -0.28   34.64   27.85    25.7   0.230   1451.1
 230.0  -0.11  -0.11   34.69   27.88    22.8   0.232   1452.1
 240.0   0.05   0.04   34.73   27.91    20.8   0.235   1453.0
 250.0   0.17   0.16   34.76   27.92    19.3   0.237   1453.8
 260.0   0.27   0.25   34.79   27.94    17.7   0.238   1454.4
 270.0   0.32   0.31   34.80   27.95    17.0   0.240   1454.9
 280.0   0.33   0.32   34.80   27.95    17.0   0.242   1455.1
 290.0   0.40   0.39   34.82   27.96    16.2   0.244   1455.6
 300.0   0.50   0.49   34.85   27.98    14.7   0.245   1456.2
 310.0   0.56   0.54   34.86   27.98    14.0   0.247   1456.7
 320.0   0.58   0.57   34.86   27.98    14.1   0.248   1456.9
 330.0   0.58   0.56   34.86   27.98    14.1   0.249   1457.1
 340.0   0.60   0.58   34.87   27.99    13.7   0.251   1457.4
 350.0   0.64   0.62   34.88   27.99    13.4   0.252   1457.7
 370.0   0.69   0.67   34.89   28.00    12.8   0.255   1458.3
 390.0   0.71   0.70   34.89   28.00    12.6   0.257   1458.7
 410.0   0.68   0.66   34.90   28.01    12.1   0.260   1458.9
 430.0   0.64   0.62   34.90   28.01    11.6   0.262   1459.1
 450.0   0.62   0.60   34.90   28.01    11.4   0.265   1459.3
 470.0   0.58   0.56   34.91   28.02    10.9   0.267   1459.5
 490.0   0.53   0.51   34.91   28.02    10.7   0.269   1459.6
 510.0   0.48   0.46   34.91   28.02    10.3   0.271   1459.7
 530.0   0.43   0.41   34.91   28.03    10.0   0.273   1459.8
 550.0   0.36   0.34   34.90   28.03     9.6   0.275   1459.8
 570.0   0.31   0.29   34.91   28.03     9.1   0.277   1459.9
 590.0   0.27   0.24   34.91   28.04     8.8   0.279   1460.1
 610.0   0.22   0.20   34.91   28.04     8.4   0.281   1460.2
 630.0   0.20   0.17   34.91   28.04     8.2   0.282   1460.4
 650.0   0.17   0.14   34.91   28.04     8.1   0.284   1460.6
 670.0   0.14   0.11   34.91   28.05     7.6   0.286   1460.8
 690.0   0.10   0.07   34.91   28.05     7.4   0.287   1461.0
 697.8   0.09   0.06   34.91   28.05     7.1   0.288   1461.1

                        DEPTH       TEMP.       SALIN
```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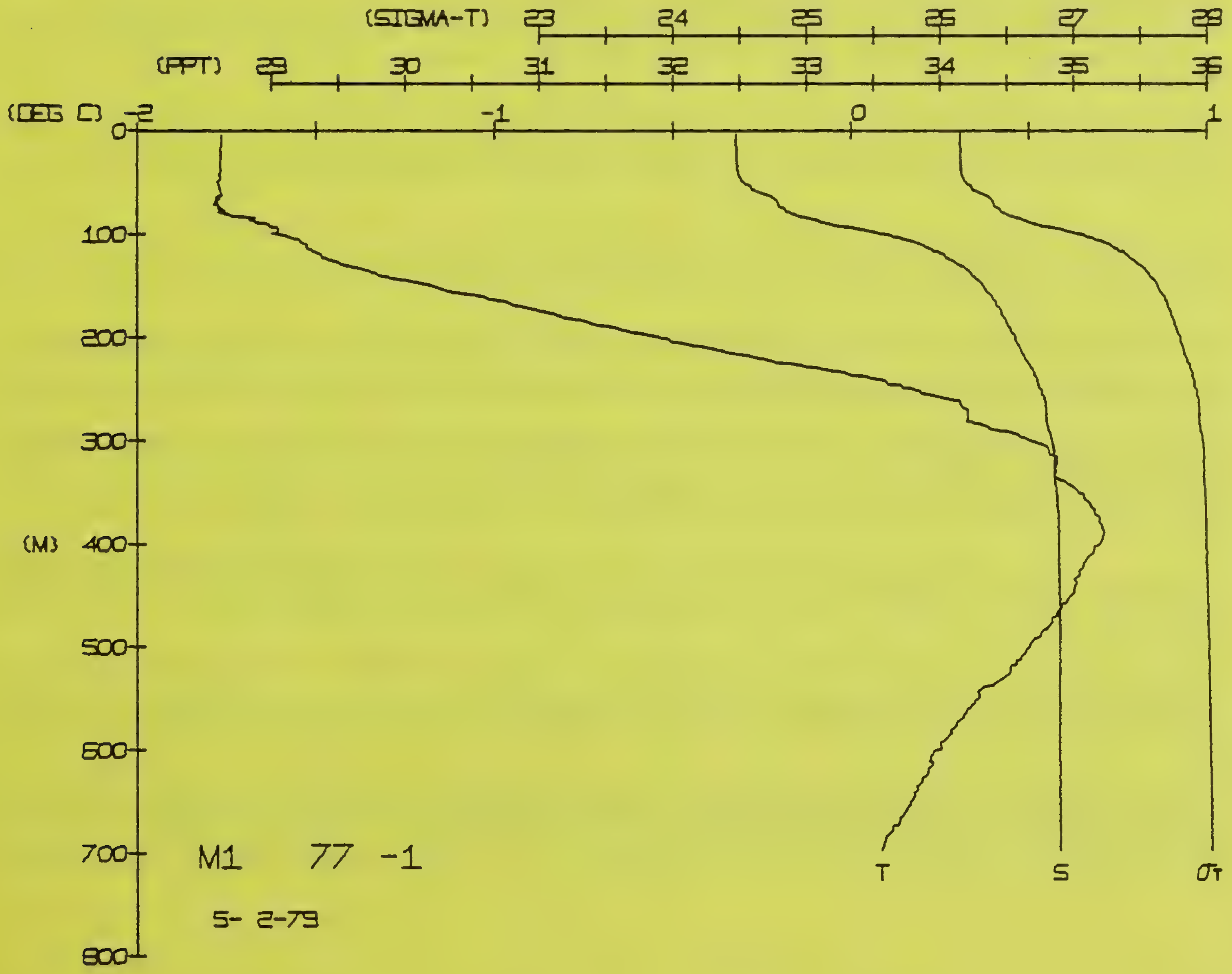
T
S
σT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200
300
(M) 400
500
600
700
800
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5- 2-79
T
S
σT

```
FRAM 1  STATION  78(1) CTD   2/MAY/1979 1906 GMT   CODE = 1
LAT = 84.0157N LNG =   7.2997W LTER =      0.  LGER =      1.
AIR TEMP = -15.4 BAROM = 1037.3 WIND = 343.0 SPEED =     7.3

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0   -1.76   -1.76   32.46   26.14   188.0   0.000   1437.4
  3.0   -1.76   -1.76   32.46   26.14   187.9   0.006   1437.5
  5.0   -1.76   -1.76   32.46   26.14   188.7   0.009   1437.5
 10.0   -1.76   -1.76   32.44   26.13   189.6   0.019   1437.6
 15.0   -1.76   -1.76   32.44   26.13   189.4   0.029   1437.6
 20.0   -1.77   -1.77   32.45   26.13   188.6   0.038   1437.7
 25.0   -1.77   -1.77   32.46   26.14   188.4   0.048   1437.8
 30.0   -1.77   -1.77   32.45   26.13   188.9   0.057   1437.9
 35.0   -1.77   -1.77   32.46   26.14   188.1   0.067   1438.0
 40.0   -1.77   -1.77   32.46   26.14   187.8   0.076   1438.0
 45.0   -1.77   -1.77   32.47   26.15   187.2   0.085   1438.1
 50.0   -1.77   -1.77   32.47   26.15   187.2   0.095   1438.2
 55.0   -1.77   -1.77   32.50   26.17   184.8   0.104   1438.4
 60.0   -1.76   -1.77   32.59   26.24   177.9   0.113   1438.6
 65.0   -1.76   -1.76   32.71   26.34   168.6   0.122   1438.9
 70.0   -1.77   -1.77   32.75   26.38   165.2   0.131   1439.0
 80.0   -1.73   -1.74   32.87   26.47   156.4   0.147   1439.4
 90.0   -1.65   -1.65   33.16   26.70   134.2   0.161   1440.4
100.0   -1.60   -1.61   33.44   26.93   112.9   0.174   1441.2
110.0   -1.57   -1.57   33.75   27.18    88.6   0.184   1442.0
120.0   -1.49   -1.49   34.00   27.38    70.1   0.192   1442.9
130.0   -1.42   -1.42   34.14   27.49    59.5   0.199   1443.6
140.0   -1.33   -1.33   34.22   27.55    53.5   0.204   1444.3
150.0   -1.20   -1.20   34.30   27.61    48.2   0.209   1445.2
160.0   -1.07   -1.07   34.36   27.66    43.6   0.214   1446.0
170.0   -0.96   -0.96   34.40   27.69    40.8   0.218   1446.8
180.0   -0.83   -0.84   34.45   27.72    37.6   0.222   1447.6
190.0   -0.69   -0.70   34.51   27.76    33.8   0.226   1448.5
200.0   -0.57   -0.58   34.54   27.79    31.7   0.229   1449.2
210.0   -0.41   -0.42   34.59   27.81    29.3   0.232   1450.2
220.0   -0.25   -0.26   34.63   27.84    26.8   0.235   1451.2
230.0   -0.13   -0.14   34.66   27.86    24.8   0.238   1452.0
240.0    0.00   -0.01   34.70   27.89    22.6   0.240   1452.7
250.0    0.11    0.10   34.73   27.91    20.8   0.242   1453.5
260.0    0.23    0.22   34.76   27.92    19.2   0.244   1454.2
270.0    0.30    0.29   34.77   27.93    18.8   0.246   1454.7
280.0    0.32    0.31   34.79   27.94    17.8   0.248   1455.0
290.0    0.41    0.40   34.81   27.95    16.6   0.250   1455.6
300.0    0.50    0.49   34.83   27.96    16.1   0.251   1456.2
310.0    0.56    0.54   34.85   27.97    14.9   0.253   1456.6
320.0    0.58    0.57   34.85   27.97    15.2   0.255   1456.9
330.0    0.58    0.56   34.84   27.97    15.7   0.256   1457.1
340.0    0.59    0.58   34.85   27.97    15.0   0.258   1457.3
350.0    0.64    0.62   34.87   27.98    14.2   0.259   1457.7
370.0    0.70    0.68   34.88   27.99    13.5   0.262   1458.3
390.0    0.72    0.70   34.90   28.00    12.5   0.265   1458.8
410.0    0.66    0.65   34.89   28.00    12.3   0.267   1458.9
430.0    0.62    0.60   34.90   28.01    11.7   0.269   1459.0
450.0    0.59    0.56   34.90   28.01    11.4   0.272   1459.2
470.0    0.54    0.52   34.90   28.02    11.0   0.274   1459.3
490.0    0.50    0.48   34.91   28.02    10.3   0.276   1459.5
510.0    0.47    0.44   34.91   28.03    10.1   0.278   1459.6
530.0    0.42    0.40   34.91   28.03     9.8   0.280   1459.8
550.0    0.37    0.35   34.91   28.03     9.3   0.282   1459.9
570.0    0.32    0.30   34.91   28.04     8.7   0.284   1460.0
590.0    0.28    0.25   34.91   28.04     8.8   0.286   1460.1
610.0    0.24    0.21   34.91   28.04     8.7   0.288   1460.3
630.0    0.20    0.17   34.91   28.04     8.5   0.289   1460.4
650.0    0.16    0.13   34.91   28.04     8.2   0.291   1460.6
670.0    0.12    0.09   34.91   28.04     7.9   0.293   1460.7
690.0    0.09    0.06   34.91   28.05     7.5   0.294   1460.9

                         DEPTH        TEMP.        SALIN

     BOT NUM = 1           3.6        -1.76        32.45
     BOT NUM = 2          38.4        -1.78
     BOT NUM = 3         385.1         0.72        34.89
     BOT NUM = 4         699.3         0.07        34.90
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FRAM 1  STATION  79(1) CTD   3/MAY/1979  705 GMT   CODE = 1
LAT = 84.0012N LNG =   7.2498W LTER =      1.  LGER =      2.
AIR TEMP = -20.3 BAROM = 1038.5 WIND = 306.0 SPEED =     4.6

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0   -1.77   -1.77   32.46   26.14   188.0   0.000   1437.4
  3.1   -1.77   -1.77   32.46   26.14   188.0   0.006   1437.5
  5.0   -1.77   -1.77   32.46   26.14   188.0   0.009   1437.5
 10.0   -1.76   -1.76   32.45   26.14   188.6   0.019   1437.6
 15.0   -1.77   -1.77   32.47   26.14   187.8   0.028   1437.7
 20.0   -1.77   -1.77   32.47   26.15   187.4   0.038   1437.7
 25.0   -1.77   -1.77   32.47   26.15   187.1   0.047   1437.8
 30.0   -1.77   -1.77   32.47   26.15   187.4   0.057   1437.9
 35.0   -1.77   -1.77   32.47   26.15   187.1   0.066   1438.0
 40.0   -1.77   -1.77   32.48   26.15   186.8   0.076   1438.1
 45.0   -1.77   -1.77   32.48   26.15   186.6   0.085   1438.2
 50.0   -1.77   -1.77   32.52   26.18   183.6   0.094   1438.3
 55.0   -1.75   -1.75   32.64   26.28   174.1   0.103   1438.6
 60.0   -1.75   -1.75   32.69   26.32   170.3   0.112   1438.8
 65.0   -1.77   -1.77   32.75   26.38   165.4   0.120   1438.9
 70.0   -1.76   -1.76   32.78   26.40   163.4   0.129   1439.0
 80.0   -1.74   -1.74   32.92   26.51   152.3   0.145   1439.5
 90.0   -1.65   -1.65   33.16   26.70   134.2   0.159   1440.4
100.0   -1.60   -1.60   33.50   26.98   107.8   0.171   1441.3
110.0   -1.54   -1.54   33.84   27.25    81.9   0.181   1442.3
120.0   -1.50   -1.50   34.00   27.38    69.6   0.188   1442.8
130.0   -1.43   -1.43   34.14   27.49    59.2   0.195   1443.5
140.0   -1.31   -1.31   34.25   27.57    51.6   0.201   1444.4
150.0   -1.21   -1.21   34.31   27.62    47.1   0.206   1445.1
160.0   -1.06   -1.06   34.38   27.67    42.1   0.210   1446.1
170.0   -0.96   -0.96   34.43   27.71    39.0   0.214   1446.8
180.0   -0.81   -0.82   34.48   27.74    35.9   0.218   1447.7
190.0   -0.68   -0.69   34.52   27.77    33.1   0.221   1448.5
200.0   -0.50   -0.51   34.59   27.81    29.5   0.225   1449.6
210.0   -0.41   -0.42   34.61   27.83    27.8   0.227   1450.2
220.0   -0.26   -0.27   34.64   27.85    25.8   0.230   1451.2
230.0   -0.16   -0.17   34.66   27.86    24.5   0.233   1451.8
240.0   -0.02   -0.03   34.70   27.88    22.8   0.235   1452.7
250.0    0.13    0.12   34.74   27.91    20.3   0.237   1453.6
260.0    0.25    0.24   34.78   27.93    18.4   0.239   1454.3
270.0    0.31    0.30   34.80   27.95    17.0   0.241   1454.8
280.0    0.36    0.35   34.80   27.95    17.1   0.243   1455.2
290.0    0.46    0.44   34.83   27.96    16.0   0.244   1455.8
300.0    0.52    0.51   34.85   27.98    14.5   0.246   1456.3
310.0    0.56    0.54   34.86   27.98    14.3   0.247   1456.7
320.0    0.57    0.55   34.86   27.98    14.3   0.249   1456.9
330.0    0.57    0.56   34.86   27.98    14.2   0.250   1457.1
340.0    0.60    0.59   34.87   27.98    13.9   0.252   1457.4
350.0    0.64    0.62   34.88   28.00    12.9   0.253   1457.7
370.0    0.69    0.67   34.88   27.99    13.2   0.256   1458.3
390.0    0.70    0.69   34.90   28.00    12.4   0.258   1458.7
410.0    0.65    0.63   34.90   28.01    12.0   0.261   1458.8
430.0    0.62    0.60   34.90   28.01    11.5   0.263   1459.0
450.0    0.59    0.57   34.90   28.02    11.2   0.265   1459.2
470.0    0.56    0.54   34.90   28.02    10.9   0.268   1459.4
490.0    0.52    0.49   34.91   28.02    10.4   0.270   1459.5
510.0    0.45    0.43   34.90   28.02    10.2   0.272   1459.6
530.0    0.38    0.36   34.90   28.03     9.8   0.274   1459.6
550.0    0.32    0.30   34.90   28.03     9.3   0.276   1459.7
570.0    0.28    0.26   34.90   28.03     9.4   0.278   1459.8
590.0    0.24    0.22   34.90   28.04     8.9   0.280   1459.9
610.0    0.20    0.17   34.91   28.04     8.2   0.281   1460.1
630.0    0.17    0.14   34.91   28.04     8.2   0.283   1460.3
650.0    0.13    0.10   34.90   28.04     8.1   0.285   1460.4
670.0    0.09    0.07   34.91   28.05     7.5   0.286   1460.6
690.0    0.08    0.05   34.91   28.05     7.4   0.288   1460.9

                         DEPTH        TEMP.        SALIN

     BOT NUM = 1           3.4                     32.46
     BOT NUM = 2          46.1        -1.78        32.48
     BOT NUM = 3          46.6                     32.46
     BOT NUM = 4         386.6         0.71        34.89
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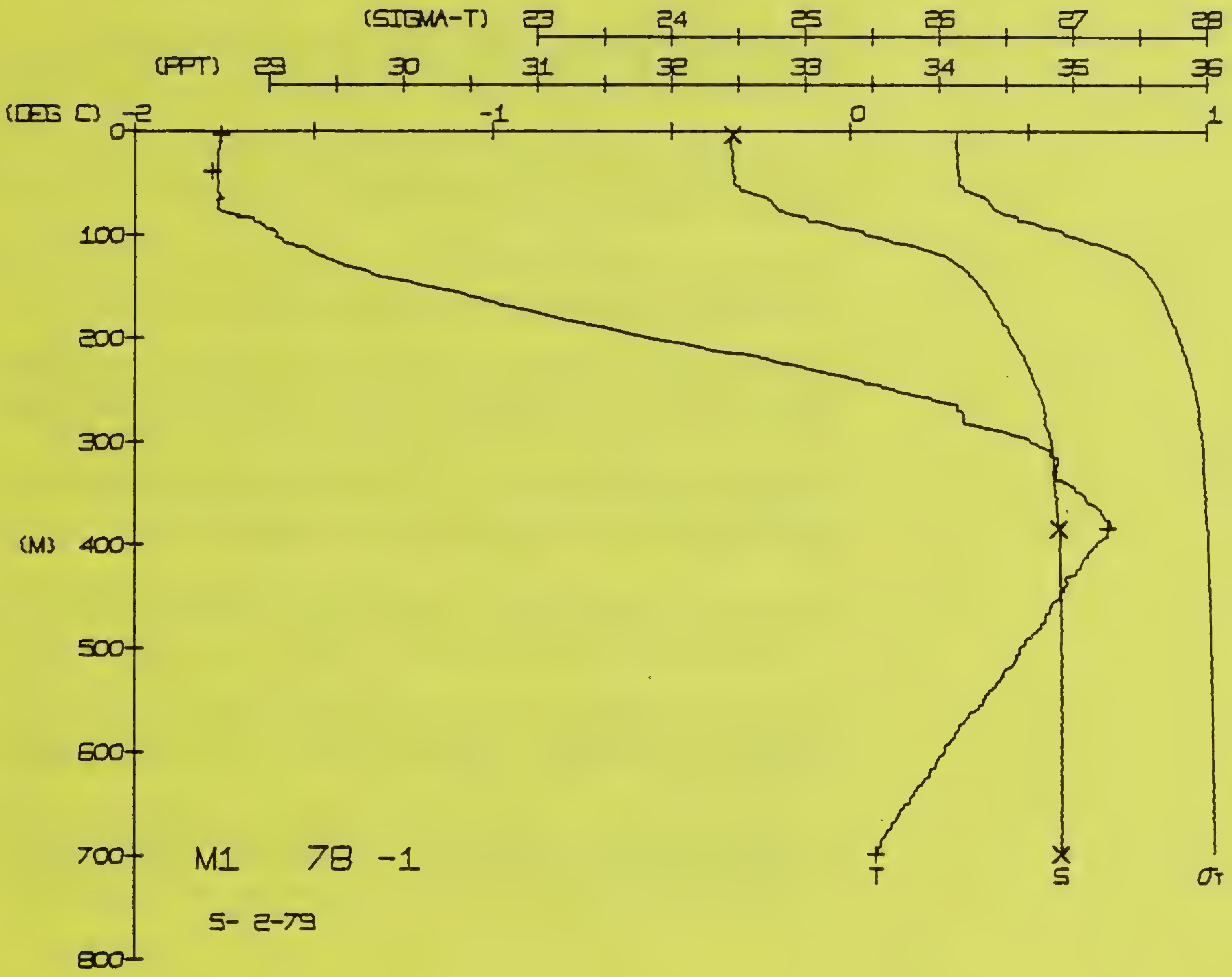
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(M) 400
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800
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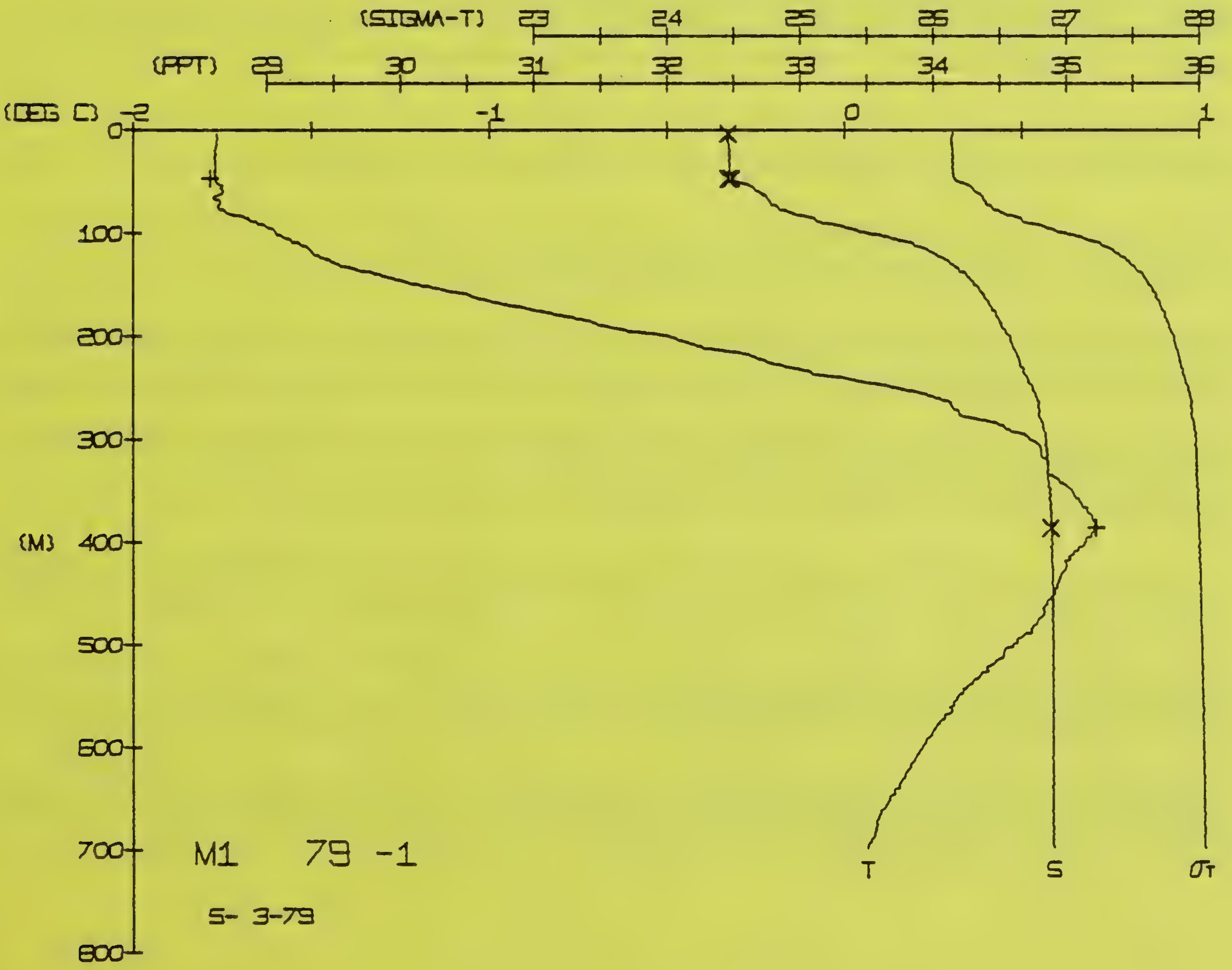
5- 2-79
T
S
σT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(DEG C) -2 -1 0 1
0
100
200
300
(M) 400
500
600
700
800
M1 79 -1
5- 3-79
T
S
σT

```
 FRAM 1  STATION  80(1) CTD   3/MAY/1979 1008 GMT  CODE = 1
LAT = 83.9974N LNG =    7.2219W LTER =       1.  LGER =      2.
AIR TEMP = -20.3 BAROM = 1037.3 WIND = 306.0 SPEED =    4.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.47   26.15   187.3   0.000   1437.4
   3.1   -1.77   -1.77   32.47   26.15   187.3   0.006   1437.5
   5.0   -1.77   -1.77   32.48   26.15   187.0   0.009   1437.5
  10.0   -1.77   -1.77   32.48   26.15   187.0   0.019   1437.6
  15.0   -1.77   -1.77   32.48   26.15   186.8   0.028   1437.7
  20.0   -1.77   -1.77   32.47   26.15   187.0   0.038   1437.7
  25.0   -1.77   -1.77   32.47   26.15   187.0   0.047   1437.8
  30.0   -1.77   -1.77   32.47   26.15   187.3   0.056   1437.9
  35.0   -1.77   -1.77   32.48   26.15   186.6   0.066   1438.0
  40.0   -1.77   -1.77   32.48   26.16   186.5   0.075   1438.1
  45.0   -1.77   -1.77   32.48   26.15   186.6   0.085   1438.2
  50.0   -1.77   -1.77   32.49   26.17   185.4   0.094   1438.3
  55.0   -1.77   -1.77   32.61   26.26   176.3   0.103   1438.5
  60.0   -1.76   -1.76   32.69   26.32   170.4   0.112   1438.7
  65.0   -1.78   -1.78   32.75   26.37   165.6   0.120   1438.8
  70.0   -1.76   -1.77   32.78   26.40   163.2   0.129   1439.0
  80.0   -1.74   -1.74   32.91   26.51   152.9   0.145   1439.5
  90.0   -1.64   -1.64   33.23   26.76   129.0   0.159   1440.6
 100.0   -1.60   -1.60   33.55   27.02   104.1   0.171   1441.4
 110.0   -1.54   -1.54   33.85   27.26    81.5   0.180   1442.3
 120.0   -1.49   -1.49   34.03   27.40    67.6   0.187   1442.9
 130.0   -1.43   -1.43   34.15   27.50    58.4   0.194   1443.6
 140.0   -1.32   -1.32   34.24   27.57    51.8   0.199   1444.4
 150.0   -1.21   -1.21   34.32   27.63    46.6   0.204   1445.1
 160.0   -1.06   -1.07   34.39   27.68    41.5   0.209   1446.1
 170.0   -0.93   -0.94   34.44   27.72    38.2   0.213   1446.9
 180.0   -0.79   -0.80   34.49   27.75    34.8   0.216   1447.8
 190.0   -0.68   -0.69   34.53   27.78    32.3   0.220   1448.5
 200.0   -0.54   -0.55   34.57   27.81    29.9   0.223   1449.4
 210.0   -0.41   -0.41   34.61   27.83    27.4   0.226   1450.3
 220.0   -0.24   -0.25   34.66   27.86    24.8   0.229   1451.3
 230.0   -0.10   -0.10   34.70   27.87    22.6   0.231   1452.1
 240.0    0.01    0.00   34.72   27.90    21.4   0.233   1452.8
 250.0    0.16    0.15   34.77   27.93    18.5   0.235   1453.8
 260.0    0.29    0.28   34.80   27.95    17.0   0.237   1454.6
 270.0    0.31    0.30   34.80   27.95    16.8   0.239   1454.8
 280.0    0.35    0.34   34.81   27.96    16.2   0.240   1455.2
 290.0    0.45    0.44   34.83   27.97    15.4   0.242   1455.8
 300.0    0.53    0.52   34.86   27.99    13.5   0.243   1456.4
 310.0    0.55    0.54   34.86   27.98    14.1   0.245   1456.6
 315.7    0.56    0.54   34.85   27.98    14.7   0.246   1456.7


                          DEPTH       TEMP.       SALIN

      BOT NUM = 1          37.9       -1.77       32.47
      BOT NUM = 2         316.8        0.55       34.85
```

```
 FRAM 1  STATION  81(1) CTD   3/MAY/1979 1911 GMT  CODE = 1
LAT = 83.9812N LNG =    7.0720W LTER =       1.  LGER =      2.
AIR TEMP = -18.8 BAROM = 1030.5 WIND = 260.0 SPEED =    5.0

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.48   26.15   187.2   0.000   1437.4
   3.0   -1.77   -1.77   32.48   26.15   187.1   0.006   1437.5
   5.0   -1.77   -1.77   32.48   26.15   187.0   0.009   1437.5
  10.0   -1.77   -1.77   32.47   26.15   187.6   0.019   1437.6
  15.0   -1.77   -1.77   32.47   26.15   187.1   0.028   1437.7
  20.0   -1.77   -1.77   32.47   26.15   187.4   0.038   1437.7
  25.0   -1.77   -1.77   32.46   26.14   188.1   0.047   1437.8
  30.0   -1.77   -1.77   32.47   26.15   187.4   0.057   1437.9
  35.0   -1.77   -1.77   32.47   26.15   187.5   0.066   1438.0
  40.0   -1.77   -1.77   32.48   26.15   186.8   0.075   1438.1
  45.0   -1.77   -1.77   32.47   26.15   187.4   0.085   1438.1
  50.0   -1.77   -1.77   32.49   26.16   185.7   0.094   1438.3
  55.0   -1.75   -1.75   32.65   26.29   173.5   0.103   1438.7
  60.0   -1.75   -1.75   32.72   26.35   167.6   0.112   1438.8
  65.0   -1.76   -1.76   32.77   26.39   164.0   0.120   1438.9
  70.0   -1.76   -1.76   32.80   26.41   161.8   0.129   1439.1
  80.0   -1.73   -1.73   32.94   26.53   150.5   0.144   1439.6
  90.0   -1.65   -1.65   33.30   26.82   123.5   0.158   1440.6
 100.0   -1.59   -1.60   33.57   27.04   102.5   0.169   1441.4
 110.0   -1.55   -1.55   33.80   27.22    85.5   0.179   1442.1
 120.0   -1.50   -1.50   34.03   27.40    67.9   0.187   1442.9
 130.0   -1.43   -1.43   34.15   27.50    53.5   0.193   1443.5
 140.0   -1.31   -1.31   34.25   27.58    51.0   0.199   1444.4
 150.0   -1.19   -1.20   34.33   27.64    45.3   0.203   1445.2
 160.0   -1.06   -1.06   34.40   27.69    41.0   0.208   1446.1
 170.0   -0.93   -0.93   34.44   27.72    37.9   0.212   1447.0
 180.0   -0.79   -0.80   34.49   27.75    35.1   0.215   1447.8
 190.0   -0.67   -0.68   34.53   27.78    32.4   0.219   1448.6
 200.0   -0.53   -0.53   34.59   27.81    29.3   0.222   1449.5
 210.0   -0.39   -0.40   34.62   27.84    27.1   0.225   1450.3
 220.0   -0.24   -0.25   34.66   27.86    24.6   0.227   1451.3
 230.0   -0.10   -0.11   34.70   27.89    22.1   0.230   1452.1
 240.0    0.04    0.03   34.73   27.91    20.6   0.232   1453.0
 250.0    0.17    0.16   34.76   27.93    19.0   0.234   1453.8
 260.0    0.29    0.28   34.80   27.95    17.0   0.236   1454.5
 270.0    0.31    0.30   34.80   27.95    17.3   0.237   1454.8
 280.0    0.36    0.34   34.81   27.95    16.7   0.239   1455.2
 290.0    0.47    0.46   34.84   27.97    14.9   0.241   1455.9
 300.0    0.51    0.50   34.85   27.98    14.6   0.242   1456.3
 310.0    0.55    0.54   34.86   27.98    14.4   0.244   1456.6
 320.0    0.57    0.55   34.87   27.99    13.7   0.245   1456.9
 330.0    0.57    0.55   34.86   27.98    14.3   0.247   1457.0
 340.0    0.59    0.57   34.87   27.99    13.5   0.248   1457.3
 350.0    0.65    0.64   34.88   27.99    13.3   0.249   1457.8
 370.0    0.70    0.69   34.89   28.00    12.7   0.252   1458.4
 390.0    0.70    0.68   34.90   28.01    12.1   0.254   1458.7
 410.0    0.65    0.63   34.90   28.01    11.9   0.257   1458.8
 430.0    0.61    0.59   34.90   28.01    11.4   0.259   1458.9
 450.0    0.58    0.56   34.90   28.02    11.1   0.262   1459.2
 470.0    0.56    0.54   34.91   28.02    10.7   0.264   1459.4
 490.0    0.52    0.50   34.91   28.02    10.5   0.266   1459.5
 510.0    0.45    0.43   34.91   28.03     9.9   0.268   1459.6
 530.0    0.40    0.37   34.91   28.03     9.2   0.270   1459.7
 550.0    0.34    0.32   34.91   28.04     9.0   0.272   1459.7
 570.0    0.26    0.24   34.91   28.04     8.4   0.273   1459.7
 590.0    0.23    0.21   34.91   28.04     8.7   0.275   1459.9
 610.0    0.20    0.17   34.91   28.04     8.3   0.277   1460.1
 630.0    0.16    0.13   34.91   28.05     7.8   0.279   1460.2
 650.0    0.13    0.10   34.91   28.04     8.0   0.280   1460.4
 670.0    0.08    0.05   34.91   28.05     7.2   0.282   1460.6
 690.0    0.06    0.03   34.91   28.05     7.4   0.283   1460.8
 698.5    0.05    0.02   34.93   28.06     5.9   0.284   1460.9


                          DEPTH       TEMP.       SALIN

      BOT NUM = 1           3.6       -1.76       32.47
      BOT NUM = 2          38.8       -1.78       32.46
      BOT NUM = 3         385.7        0.70       34.89
      BOT NUM = 4         697.7        0.05       34.90
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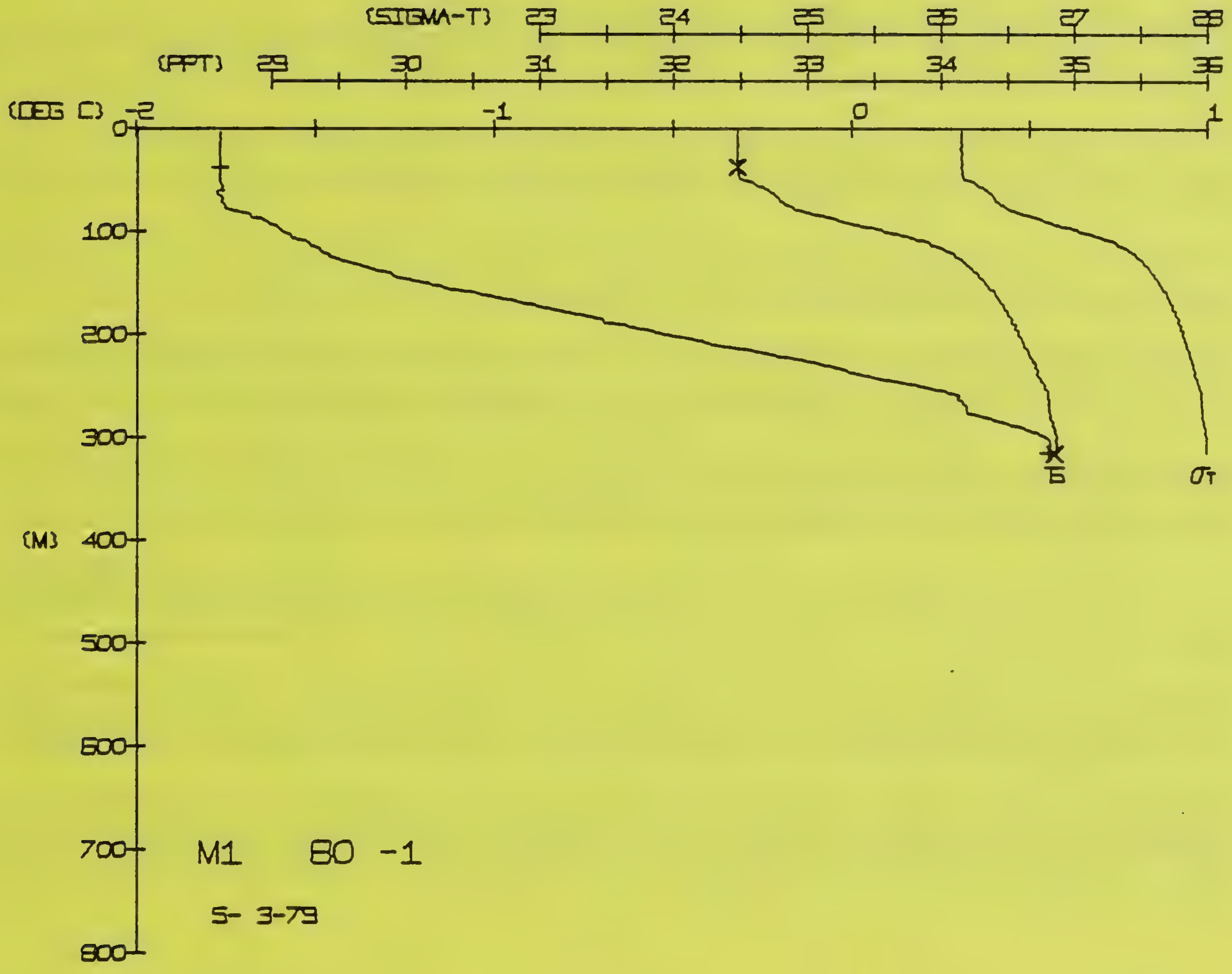
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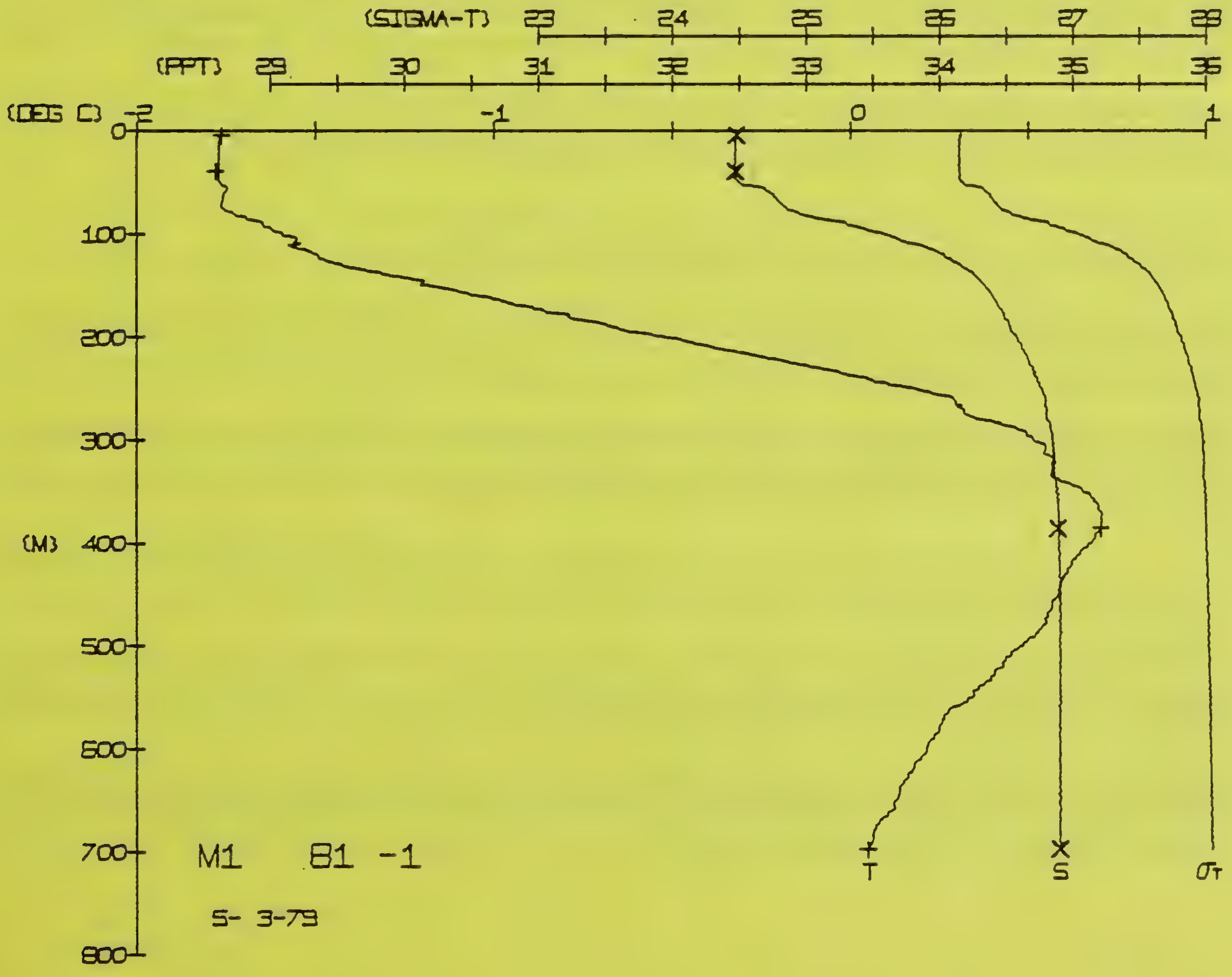
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(DEG C) -2 -1 0 1
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200
300
(M) 400
500
600
700
800
T
S
σT
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5- 3-79

```
FRAM 1  STATION  82(1) CTD   4/MAY/1979  712 GMT   CODE = 1
LAT = 83.9455N LNG =   6.9927W LTER =      1. LGER =      2.
AIR TEMP = -18.8 BAROM = 1025.6 WIND = 260.0 SPEED =    5.0

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.48   26.16   186.6   0.000   1437.4
   3.0   -1.77   -1.77   32.48   26.16   186.6   0.006   1437.5
   5.0   -1.77   -1.77   32.48   26.16   186.7   0.009   1437.5
  10.0   -1.77   -1.77   32.48   26.15   187.0   0.019   1437.6
  15.0   -1.77   -1.77   32.47   26.15   187.1   0.028   1437.7
  20.0   -1.77   -1.77   32.47   26.15   187.1   0.038   1437.7
  25.0   -1.77   -1.77   32.48   26.15   186.9   0.047   1437.8
  30.0   -1.77   -1.77   32.47   26.15   187.0   0.056   1437.9
  35.0   -1.77   -1.77   32.48   26.15   186.8   0.066   1438.0
  40.0   -1.77   -1.77   32.47   26.15   186.9   0.075   1438.1
  45.0   -1.77   -1.77   32.49   26.16   186.0   0.085   1438.2
  50.0   -1.77   -1.77   32.48   26.16   186.0   0.094   1438.3
  55.0   -1.76   -1.76   32.60   26.25   177.4   0.103   1438.5
  60.0   -1.75   -1.75   32.70   26.33   169.5   0.112   1438.8
  65.0   -1.76   -1.76   32.76   26.38   164.7   0.120   1438.9
  70.0   -1.76   -1.76   32.79   26.41   162.2   0.129   1439.0
  80.0   -1.75   -1.76   32.87   26.47   156.3   0.145   1439.4
  90.0   -1.67   -1.67   33.20   26.74   130.9   0.159   1440.4
 100.0   -1.60   -1.60   33.53   27.01   105.5   0.171   1441.3
 110.0   -1.55   -1.55   33.88   27.28    79.2   0.180   1442.2
 120.0   -1.51   -1.51   34.01   27.39    69.2   0.188   1442.8
 130.0   -1.44   -1.44   34.13   27.49    59.8   0.194   1443.5
 140.0   -1.31   -1.31   34.25   27.57    51.7   0.200   1444.4
 150.0   -1.17   -1.17   34.32   27.63    46.1   0.205   1445.3
 160.0   -1.04   -1.04   34.38   27.69    42.0   0.209   1446.2
 170.0   -0.93   -0.93   34.44   27.71    38.4   0.213   1447.0
 180.0   -0.80   -0.80   34.49   27.75    35.1   0.217   1447.8
 190.0   -0.69   -0.69   34.53   27.78    32.7   0.221   1448.5
 200.0   -0.54   -0.55   34.55   27.79    31.1   0.224   1449.4
 210.0   -0.39   -0.40   34.61   27.83    27.5   0.227   1450.3
 220.0   -0.23   -0.24   34.65   27.86    25.4   0.229   1451.3
 230.0   -0.11   -0.12   34.68   27.89    23.4   0.232   1452.1
 240.0    0.03    0.02   34.73   27.90    21.0   0.234   1452.9
 250.0    0.17    0.16   34.76   27.92    19.5   0.236   1453.8
 260.0    0.31    0.29   34.79   27.94    17.6   0.238   1454.6
 270.0    0.32    0.31   34.80   27.95    17.2   0.240   1454.9
 280.0    0.37    0.35   34.82   27.96    16.2   0.241   1455.2
 290.0    0.46    0.45   34.84   27.97    15.3   0.243   1455.9
 300.0    0.51    0.50   34.85   27.98    14.3   0.245   1456.3
 310.0    0.55    0.54   34.85   27.98    14.4   0.246   1456.6
 320.0    0.56    0.55   34.87   27.99    13.6   0.247   1456.9
 330.0    0.58    0.56   34.86   27.98    14.3   0.249   1457.1
 340.0    0.61    0.59   34.87   27.99    13.6   0.250   1457.4
 350.0    0.64    0.63   34.88   27.99    13.1   0.252   1457.7
 370.0    0.71    0.69   34.89   28.00    12.7   0.254   1458.4
 390.0    0.68    0.66   34.90   28.01    12.0   0.257   1458.6
 410.0    0.64    0.62   34.89   28.00    12.2   0.259   1458.8
 430.0    0.62    0.60   34.90   28.01    11.3   0.262   1459.0
 450.0    0.60    0.57   34.90   28.01    11.5   0.264   1459.2
 470.0    0.56    0.53   34.91   28.03    10.2   0.266   1459.4
 490.0    0.51    0.49   34.91   28.02    10.4   0.268   1459.5
 510.0    0.45    0.43   34.91   28.03     9.9   0.270   1459.6
 530.0    0.40    0.38   34.91   28.03     9.5   0.272   1459.7
 550.0    0.36    0.33   34.91   28.03     9.5   0.274   1459.8
 570.0    0.30    0.27   34.90   28.03     9.2   0.276   1459.9
 590.0    0.25    0.23   34.92   28.05     8.0   0.278   1460.0
 610.0    0.20    0.18   34.91   28.05     7.9   0.279   1460.1
 630.0    0.16    0.14   34.91   28.05     7.6   0.281   1460.3
 650.0    0.12    0.10   34.91   28.05     7.5   0.282   1460.4
 670.0    0.09    0.06   34.91   28.05     7.0   0.284   1460.6
 690.0    0.06    0.03   34.91   28.05     7.2   0.285   1460.8

                         DEPTH      TEMP.      SALIN

      BOT NUM = 1          3.6     -1.75      32.47
      BOT NUM = 2         41.6     -1.78
      BOT NUM = 3        384.2      0.69      34.88
      BOT NUM = 4        697.4      0.05      34.91
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```
FRAM 1  STATION  83(1) CTD   4/MAY/1979 1930 GMT   CODE = 1
LAT = 83.8953N LNG =   6.9764W LTER =      0. LGER =      0.
AIR TEMP = -15.6 BAROM = 1028.6 WIND = 306.0 SPEED =    7.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.46   26.14   189.5   0.000   1437.4
   3.0   -1.77   -1.77   32.46   26.14   188.5   0.006   1437.5
   5.0   -1.77   -1.77   32.46   26.14   188.6   0.009   1437.5
  10.0   -1.77   -1.77   32.45   26.13   189.0   0.019   1437.6
  15.0   -1.77   -1.77   32.46   26.14   189.5   0.028   1437.6
  20.0   -1.77   -1.77   32.47   26.15   187.0   0.038   1437.7
  25.0   -1.77   -1.77   32.48   26.15   186.9   0.047   1437.8
  30.0   -1.77   -1.77   32.48   26.15   186.6   0.057   1437.9
  35.0   -1.77   -1.77   32.48   26.16   185.5   0.066   1438.0
  40.0   -1.77   -1.77   32.49   26.16   186.0   0.076   1438.1
  45.0   -1.77   -1.77   32.51   26.18   184.4   0.085   1438.2
  50.0   -1.78   -1.78   32.55   26.21   181.3   0.094   1438.3
  55.0   -1.78   -1.78   32.57   26.23   179.1   0.103   1438.4
  60.0   -1.78   -1.78   32.64   26.28   174.2   0.112   1438.6
  65.0   -1.77   -1.77   32.74   26.37   166.1   0.121   1438.9
  70.0   -1.76   -1.76   32.78   26.39   163.5   0.129   1439.0
  80.0   -1.74   -1.75   32.89   26.48   155.0   0.145   1439.4
  90.0   -1.67   -1.67   33.21   26.74   130.3   0.159   1440.4
 100.0   -1.61   -1.61   33.54   27.01   105.1   0.171   1441.3
 110.0   -1.54   -1.54   33.82   27.24    83.6   0.181   1442.2
 120.0   -1.49   -1.49   34.04   27.41    67.3   0.188   1442.9
 130.0   -1.42   -1.42   34.17   27.51    57.5   0.195   1443.6
 140.0   -1.33   -1.33   34.23   27.56    52.7   0.200   1444.3
 150.0   -1.18   -1.19   34.31   27.62    47.3   0.205   1445.2
 160.0   -0.98   -0.99   34.38   27.67    42.4   0.210   1446.4
 170.0   -0.77   -0.77   34.45   27.72    38.3   0.214   1447.7
 180.0   -0.62   -0.62   34.50   27.76    34.6   0.218   1448.6
 190.0   -0.47   -0.47   34.54   27.78    32.4   0.221   1449.5
 200.0   -0.26   -0.27   34.59   27.81    29.5   0.224   1450.7
 210.0   -0.17   -0.17   34.64   27.84    26.7   0.227   1451.4
 220.0   -0.10   -0.10   34.66   27.86    24.9   0.230   1451.9
 230.0   -0.04   -0.04   34.69   27.88    23.0   0.232   1452.4
 240.0    0.11    0.10   34.73   27.91    20.9   0.234   1453.3
 250.0    0.24    0.23   34.77   27.93    18.8   0.236   1454.1
 260.0    0.31    0.30   34.79   27.94    17.6   0.238   1454.6
 270.0    0.33    0.31   34.80   27.95    16.9   0.240   1454.9
 280.0    0.43    0.42   34.82   27.96    16.0   0.241   1455.5
 290.0    0.49    0.48   34.85   27.98    14.5   0.243   1456.0
 300.0    0.53    0.52   34.86   27.98    14.1   0.244   1456.4
 310.0    0.55    0.54   34.86   27.98    14.3   0.246   1456.6
 320.0    0.57    0.55   34.86   27.98    13.9   0.247   1456.9
 330.0    0.59    0.58   34.87   27.99    13.4   0.249   1457.2
 340.0    0.62    0.61   34.88   27.99    13.3   0.250   1457.5
 350.0    0.64    0.62   34.88   28.00    12.9   0.251   1457.7
 370.0    0.69    0.67   34.87   28.00    12.5   0.254   1458.3
 390.0    0.66    0.64   34.89   28.00    12.5   0.256   1458.5
 410.0    0.63    0.61   34.90   28.01    11.5   0.259   1458.7
 430.0    0.60    0.58   34.90   28.02    11.2   0.261   1458.9
 450.0    0.56    0.54   34.91   28.02    10.7   0.263   1459.1
 470.0    0.53    0.51   34.90   28.02    10.7   0.265   1459.3
 490.0    0.47    0.45   34.90   28.02    10.4   0.268   1459.3
 510.0    0.41    0.39   34.90   28.03    10.0   0.270   1459.4
 530.0    0.37    0.34   34.91   28.03     9.5   0.272   1459.5
 550.0    0.32    0.29   34.90   28.03     9.8   0.274   1459.6
 570.0    0.29    0.26   34.91   28.04     9.0   0.275   1459.8
 590.0    0.25    0.22   34.91   28.04     8.6   0.277   1460.0
 610.0    0.20    0.17   34.91   28.04     8.3   0.279   1460.1
 630.0    0.17    0.14   34.91   28.05     7.8   0.281   1460.3
 650.0    0.13    0.10   34.91   28.05     7.8   0.282   1460.4
 670.0    0.10    0.07   34.91   28.05     7.8   0.284   1460.6
 690.0    0.06    0.03   34.91   28.05     6.9   0.285   1460.8
 698.2    0.04    0.01   34.92   28.06     6.6   0.286   1460.8

                         DEPTH      TEMP.      SALIN

      BOT NUM = 1          3.6     -1.77      32.45
      BOT NUM = 2         45.2     -1.78      32.51
      BOT NUM = 3        391.2      0.66      34.88
      BOT NUM = 4        698.4      0.04      34.90
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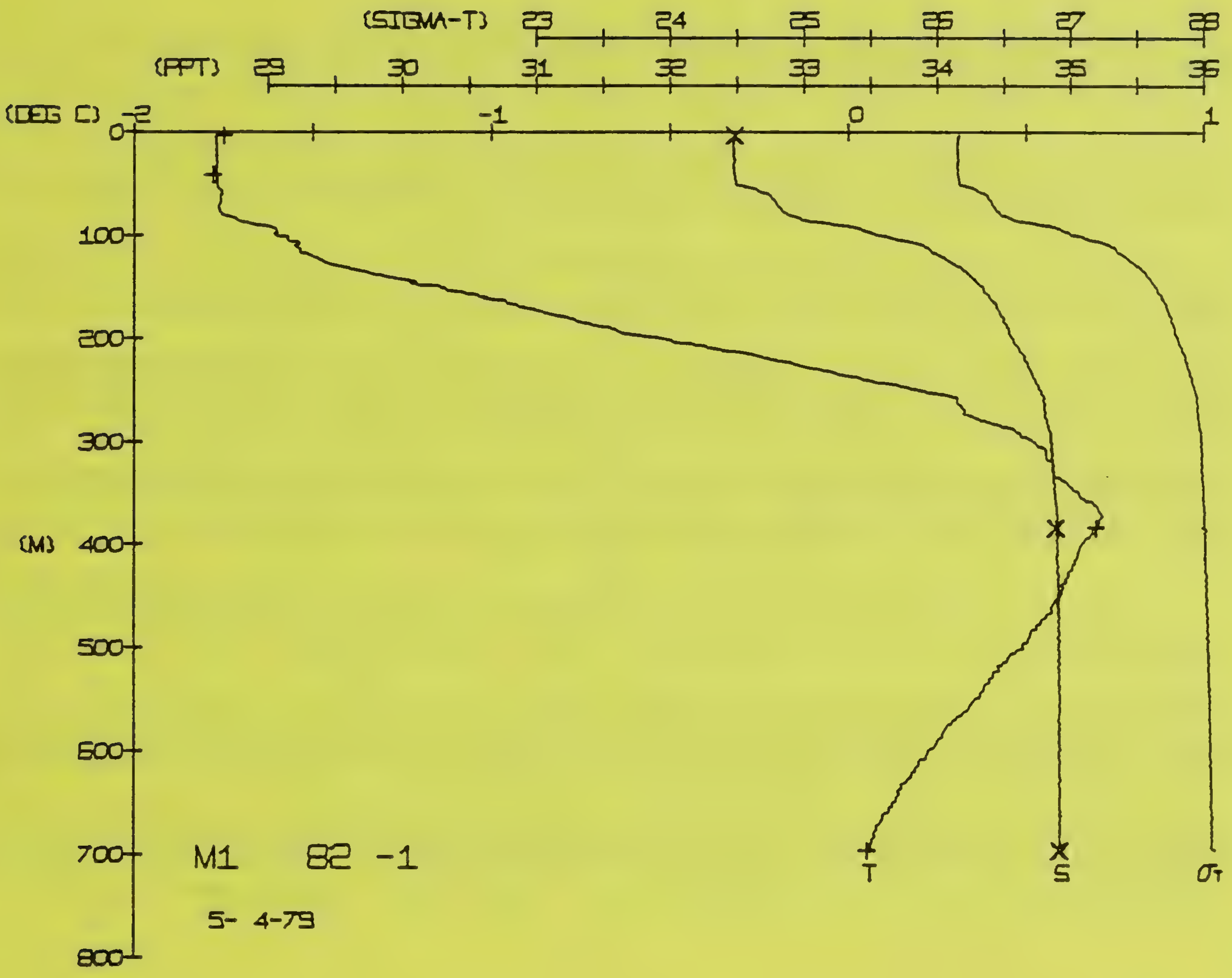
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(PPT) 29 30 31 32 33 34 35 36
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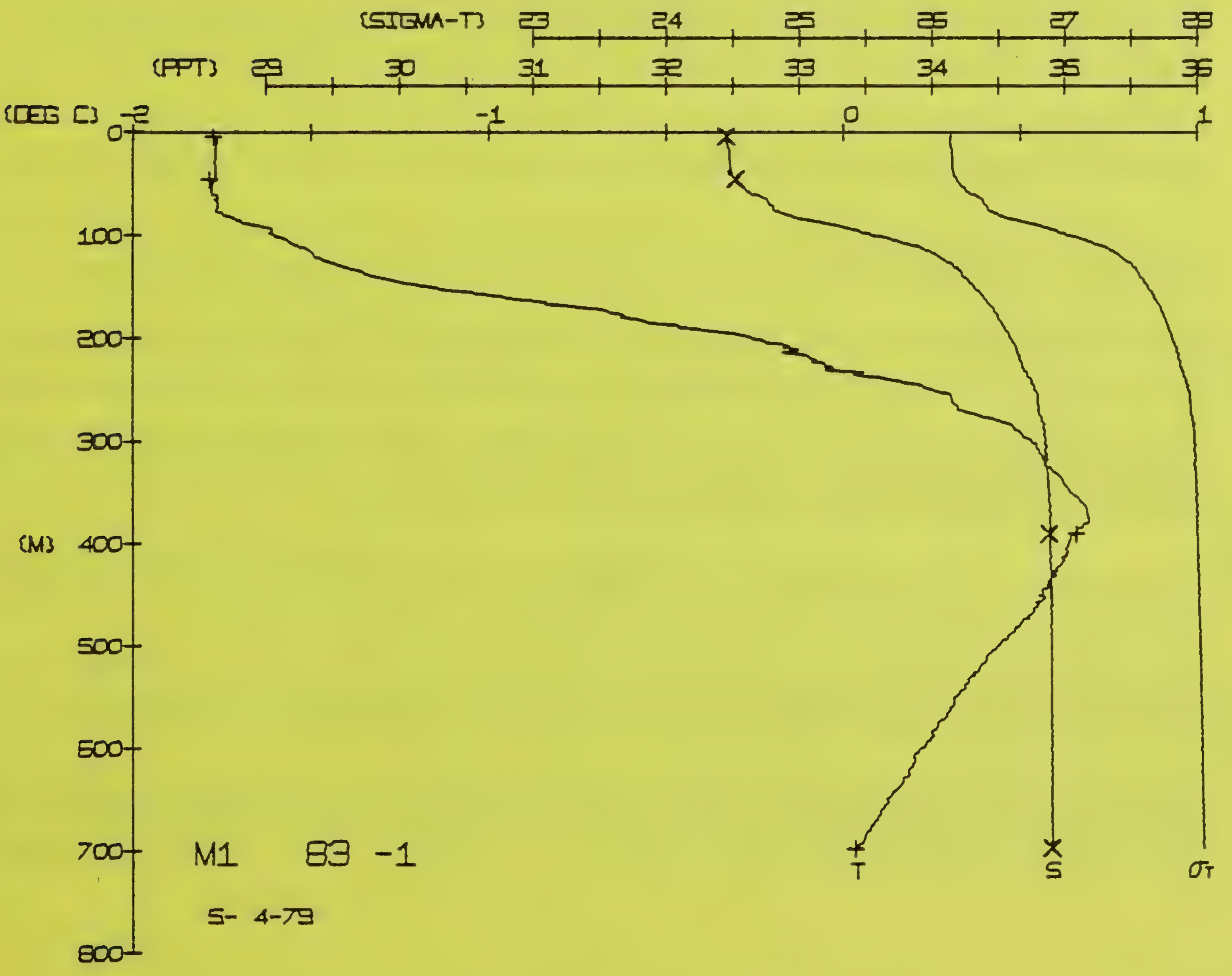
5- 4-79
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
0 100 200 300 (M) 400 500 600 700 800
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5- 4-79
T
S
σT

```
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LAT = 83.8306N LNG =   6.9174W LTER =       0. LGER =      0.
AIR TEMP = -15.6 BAROM = 1027.5 WIND = 306.0 SPEED =     7.6

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.45   26.13   189.3   0.000   1437.4
   3.1   -1.77   -1.77   32.45   26.13   189.3   0.006   1437.4
   5.0   -1.77   -1.77   32.44   26.12   190.0   0.010   1437.4
  10.0   -1.77   -1.77   32.44   26.12   189.8   0.019   1437.5
  15.0   -1.77   -1.77   32.44   26.12   189.6   0.029   1437.6
  20.0   -1.76   -1.76   32.46   26.14   188.2   0.038   1437.7
  25.0   -1.77   -1.77   32.47   26.14   187.6   0.048   1437.8
  30.0   -1.77   -1.77   32.47   26.15   186.9   0.057   1437.9
  35.0   -1.77   -1.77   32.49   26.16   185.7   0.066   1438.0
  40.0   -1.76   -1.76   32.49   26.17   185.5   0.076   1438.1
  45.0   -1.77   -1.77   32.51   26.18   184.0   0.085   1438.2
  50.0   -1.77   -1.78   32.56   26.22   180.2   0.094   1438.3
  55.0   -1.78   -1.78   32.62   26.27   175.7   0.103   1438.5
  60.0   -1.78   -1.78   32.67   26.31   171.5   0.112   1438.6
  65.0   -1.77   -1.77   32.73   26.36   166.7   0.121   1438.9
  70.0   -1.76   -1.76   32.78   26.40   163.0   0.129   1439.0
  80.0   -1.75   -1.75   32.91   26.50   153.5   0.145   1439.4
  90.0   -1.67   -1.67   33.20   26.73   131.3   0.159   1440.4
 100.0   -1.60   -1.60   33.49   26.97   109.2   0.171   1441.3
 110.0   -1.54   -1.54   33.82   27.24    83.3   0.181   1442.2
 120.0   -1.51   -1.51   34.00   27.38    70.0   0.189   1442.8
 130.0   -1.43   -1.43   34.14   27.49    59.2   0.195   1443.5
 140.0   -1.32   -1.32   34.24   27.57    52.0   0.201   1444.3
 150.0   -1.16   -1.17   34.32   27.63    46.2   0.206   1445.4
 160.0   -0.99   -1.00   34.39   27.68    41.9   0.210   1446.4
 170.0   -0.86   -0.86   34.45   27.72    38.1   0.214   1447.3
 180.0   -0.71   -0.71   34.49   27.75    35.1   0.218   1448.2
 190.0   -0.49   -0.50   34.54   27.78    32.6   0.221   1449.4
 200.0   -0.43   -0.44   34.57   27.80    30.5   0.225   1449.9
 210.0   -0.32   -0.32   34.62   27.84    27.1   0.227   1450.7
 220.0   -0.19   -0.20   34.66   27.86    25.0   0.230   1451.5
 230.0   -0.05   -0.06   34.69   27.88    22.9   0.233   1452.4
 240.0    0.09    0.08   34.74   27.91    20.5   0.235   1453.2
 250.0    0.25    0.24   34.76   27.92    19.4   0.237   1454.1
 260.0    0.37    0.36   34.80   27.94    17.4   0.239   1454.9
 270.0    0.33    0.31   34.80   27.95    17.0   0.240   1454.9
 280.0    0.41    0.40   34.82   27.96    16.2   0.242   1455.4
 290.0    0.52    0.51   34.85   27.98    14.5   0.244   1456.1
 300.0    0.55    0.54   34.86   27.98    14.2   0.245   1456.5
 310.0    0.56    0.55   34.86   27.98    14.1   0.246   1456.7
 320.0    0.57    0.55   34.86   27.98    14.4   0.248   1456.9
 330.0    0.59    0.57   34.86   27.98    14.1   0.249   1457.1
 340.0    0.64    0.63   34.88   27.99    13.1   0.251   1457.6
 350.0    0.67    0.65   34.88   27.99    13.3   0.252   1457.9
 370.0    0.73    0.71   34.90   28.00    12.5   0.255   1458.5
 390.0    0.71    0.69   34.90   28.01    12.1   0.257   1458.7
 410.0    0.65    0.63   34.90   28.01    11.7   0.259   1458.8
 430.0    0.63    0.61   34.91   28.02    11.1   0.262   1459.0
 450.0    0.61    0.59   34.91   28.02    11.2   0.264   1459.3
 470.0    0.57    0.55   34.91   28.02    10.7   0.266   1459.5
 490.0    0.48    0.46   34.90   28.02    10.4   0.268   1459.4
 510.0    0.42    0.40   34.91   28.03     9.5   0.270   1459.4
 530.0    0.37    0.35   34.91   28.03     9.3   0.272   1459.5
 550.0    0.33    0.30   34.91   28.04     8.9   0.274   1459.7
 570.0    0.29    0.26   34.91   28.04     8.8   0.276   1459.8
 590.0    0.24    0.21   34.91   28.04     8.1   0.278   1459.9
 610.0    0.20    0.17   34.91   28.04     8.0   0.279   1460.1
 630.0    0.16    0.13   34.90   28.04     8.3   0.281   1460.2
 650.0    0.12    0.09   34.91   28.05     7.8   0.283   1460.4
 670.0    0.09    0.06   34.91   28.05     7.4   0.284   1460.6
 690.0    0.05    0.02   34.92   28.06     6.4   0.285   1460.8
 700.4    0.04    0.01   34.92   28.06     6.4   0.286   1460.9

                        DEPTH         TEMP.         SALIN

       BOT NUM = 1        3.7         -1.75         32.44
       BOT NUM = 2       38.2         -1.76         32.49
       BOT NUM = 3      384.4          0.72         34.87
       BOT NUM = 4      698.4          0.04         34.90
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 FRAM 1  STATION  85(1) CTD   5/MAY/1979 1241 GMT  CODE = 1
LAT = 83.8008N LNG =   6.8783W LTER =       1. LGER =      2.
AIR TEMP = -13.9 BAROM = 1027.6 WIND = 310.0 SPEED =     8.9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.46   26.14   188.4   0.000   1437.4
   3.1   -1.77   -1.77   32.46   26.14   188.4   0.006   1437.5
   5.0   -1.77   -1.77   32.45   26.13   189.1   0.009   1437.5
  10.0   -1.77   -1.77   32.46   26.14   188.4   0.019   1437.6
  15.0   -1.77   -1.77   32.46   26.14   188.1   0.028   1437.6
  20.0   -1.77   -1.77   32.46   26.14   187.8   0.038   1437.7
  25.0   -1.77   -1.77   32.46   26.14   187.8   0.047   1437.8
  30.0   -1.77   -1.77   32.46   26.14   187.9   0.057   1437.9
  35.0   -1.77   -1.77   32.47   26.15   187.3   0.066   1438.0
  40.0   -1.77   -1.77   32.48   26.15   186.6   0.076   1438.1
  45.0   -1.77   -1.77   32.50   26.17   184.6   0.085   1438.2
  50.0   -1.77   -1.77   32.57   26.23   179.6   0.094   1438.4
  55.0   -1.76   -1.76   32.62   26.27   175.3   0.103   1438.6
  60.0   -1.77   -1.77   32.71   26.34   169.3   0.112   1438.7
  65.0   -1.77   -1.77   32.75   26.38   165.2   0.120   1438.9
  70.0   -1.76   -1.76   32.79   26.41   162.5   0.129   1439.0
  80.0   -1.76   -1.76   32.86   26.46   157.2   0.145   1439.3
  90.0   -1.67   -1.67   33.16   26.71   133.9   0.159   1440.3
 100.0   -1.58   -1.58   33.60   27.06   100.6   0.171   1441.5
 110.0   -1.57   -1.57   33.82   27.24    83.4   0.180   1442.1
 120.0   -1.51   -1.51   34.01   27.39    69.5   0.188   1442.8
 130.0   -1.40   -1.40   34.18   27.52    56.8   0.194   1443.7
 140.0   -1.29   -1.30   34.26   27.59    50.4   0.200   1444.5
 150.0   -1.17   -1.17   34.33   27.64    45.3   0.205   1445.3
 160.0   -1.04   -1.04   34.39   27.68    41.3   0.209   1446.2
 170.0   -0.89   -0.90   34.45   27.72    37.7   0.213   1447.1
 180.0   -0.77   -0.78   34.50   27.76    34.3   0.217   1447.9
 190.0   -0.52   -0.53   34.55   27.79    31.8   0.220   1449.3
 200.0   -0.39   -0.40   34.58   27.81    29.6   0.223   1450.1
 210.0   -0.22   -0.23   34.63   27.84    27.2   0.226   1451.1
 220.0   -0.14   -0.15   34.66   27.86    24.9   0.229   1451.7
 230.0   -0.04   -0.05   34.69   27.88    23.1   0.231   1452.4
 240.0    0.05    0.04   34.73   27.90    21.1   0.233   1453.0
 250.0    0.18    0.17   34.76   27.92    19.4   0.235   1453.8
 260.0    0.38    0.37   34.80   27.95    17.3   0.237   1455.0
 270.0    0.33    0.32   34.80   27.95    17.0   0.239   1454.9
 280.0    0.44    0.42   34.82   27.96    16.0   0.241   1455.6
 290.0    0.52    0.50   34.85   27.97    14.8   0.242   1456.1
 300.0    0.59    0.57   34.86   27.98    14.1   0.244   1456.6
 310.0    0.60    0.59   34.87   27.99    13.8   0.245   1456.9
 320.0    0.58    0.56   34.86   27.98    14.0   0.246   1456.9
 330.0    0.59    0.57   34.86   27.98    14.3   0.248   1457.1
 340.0    0.66    0.65   34.88   27.99    13.1   0.249   1457.7
 350.0    0.70    0.68   34.89   28.00    12.9   0.251   1458.0
 370.0    0.71    0.69   34.89   28.00    12.6   0.253   1458.4
 390.0    0.70    0.68   34.90   28.00    12.4   0.256   1458.7
 410.0    0.65    0.63   34.90   28.01    12.1   0.258   1458.8
 430.0    0.62    0.60   34.90   28.01    11.5   0.261   1459.0
 450.0    0.60    0.58   34.91   28.02    11.1   0.263   1459.2
 470.0    0.54    0.52   34.91   28.02    10.6   0.265   1459.3
 490.0    0.49    0.47   34.91   28.03    10.1   0.267   1459.4
 510.0    0.43    0.41   34.91   28.03     9.9   0.269   1459.5
 530.0    0.39    0.37   34.91   28.03     9.5   0.271   1459.6
 550.0    0.33    0.31   34.91   28.04     9.0   0.273   1459.7
 570.0    0.27    0.25   34.91   28.04     8.7   0.275   1459.8
 590.0    0.23    0.20   34.91   28.04     8.4   0.276   1459.9
 610.0    0.18    0.15   34.91   28.04     8.0   0.278   1460.0
 630.0    0.15    0.12   34.90   28.04     8.2   0.280   1460.2
 650.0    0.12    0.09   34.91   28.05     7.3   0.281   1460.4
 670.0    0.08    0.05   34.91   28.05     7.3   0.283   1460.6
 690.0    0.07    0.04   34.91   28.05     7.5   0.284   1460.8

                        DEPTH         TEMP.         SALIN
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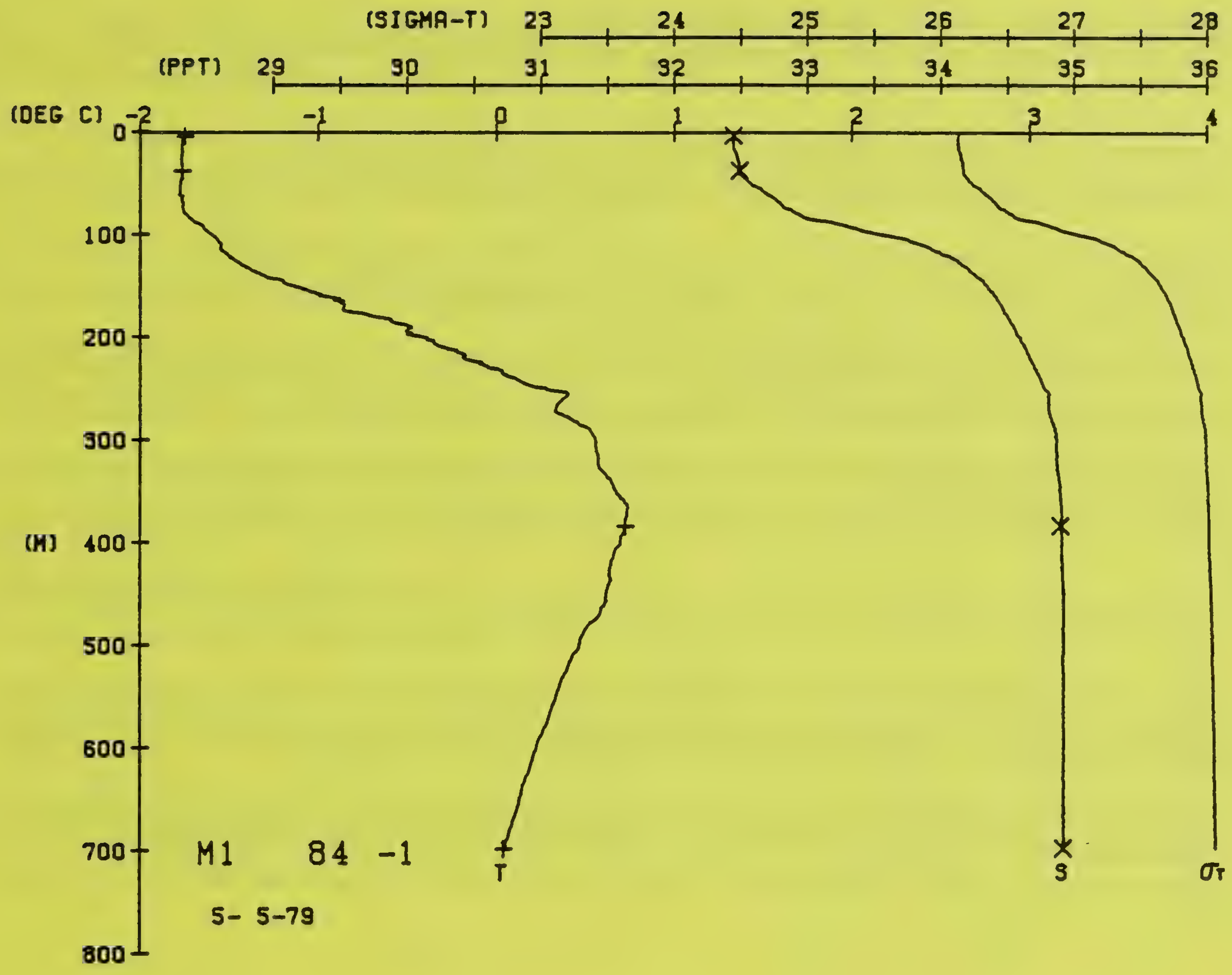
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200
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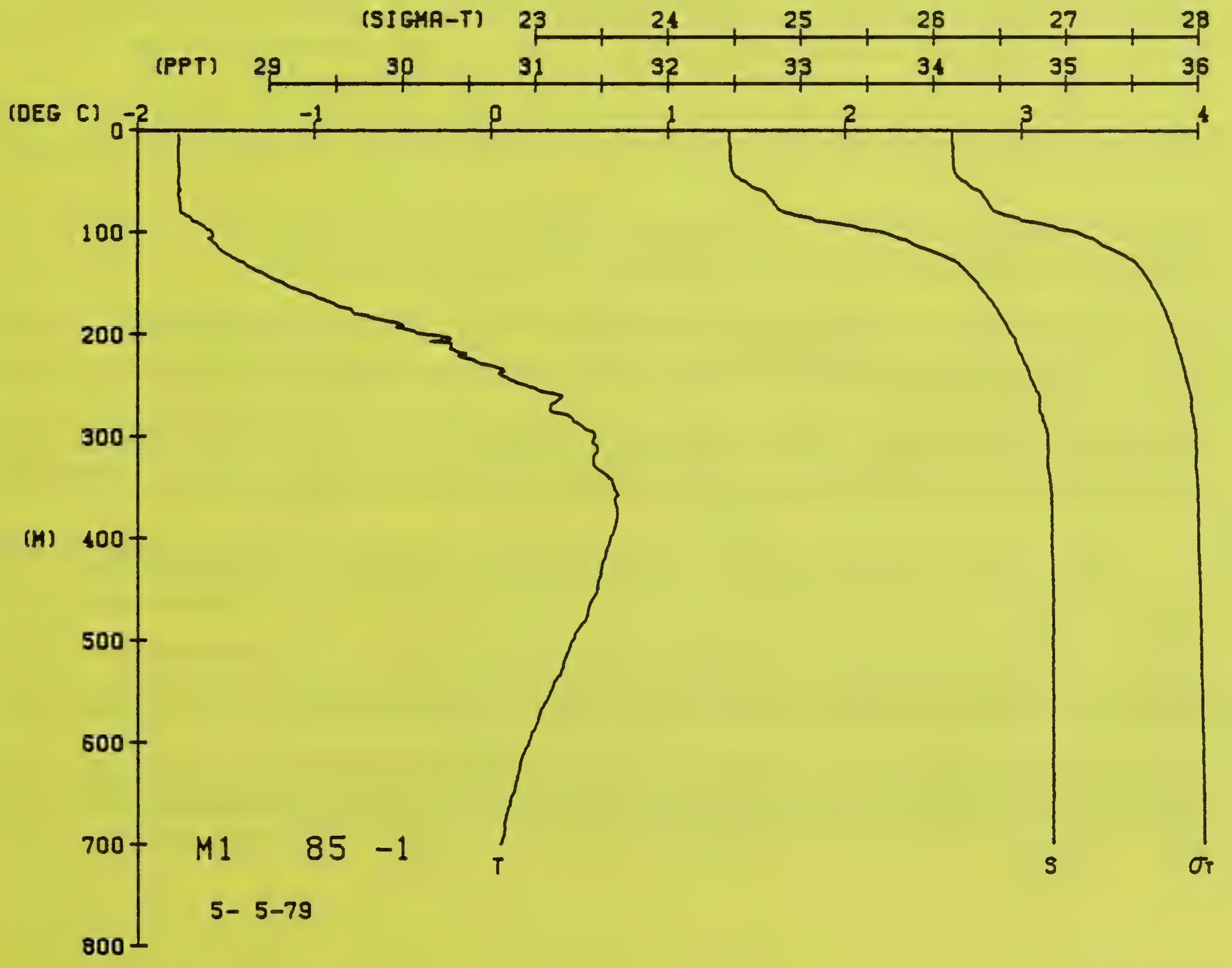
800
M1 84 -1
5- 5-79
T
S
σT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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1 2 3 4
0
100
200
300
(M) 400
500
600
700
800
M1 85 -1
5- 5-79
T
S
σT

```
 FRAM 1  STATION  86(1) CTD   5/MAY/1979 1828 GMT  CODE = 1
LAT = 83.7700N LNG =   6.8357W LTER =      0. LGER =     1.
AIR TEMP = -13.9 BAROM = 1025.3 WIND = 310.0 SPEED =    8.9

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.77   -1.77   32.46   26.14   188.1   0.000   1437.4
   3.1   -1.77   -1.77   32.46   26.14   188.0   0.006   1437.4
   5.0   -1.77   -1.77   32.46   26.14   188.4   0.009   1437.5
  10.0   -1.77   -1.77   32.46   26.14   188.5   0.019   1437.5
  15.0   -1.77   -1.77   32.45   26.13   188.8   0.028   1437.6
  20.0   -1.77   -1.77   32.45   26.13   188.7   0.038   1437.7
  25.0   -1.77   -1.77   32.45   26.13   188.6   0.047   1437.8
  30.0   -1.77   -1.77   32.46   26.14   188.3   0.057   1437.9
  35.0   -1.77   -1.77   32.46   26.14   187.8   0.066   1438.0
  40.0   -1.77   -1.77   32.47   26.15   187.3   0.076   1438.1
  45.0   -1.77   -1.77   32.47   26.15   187.0   0.085   1438.2
  50.0   -1.77   -1.77   32.50   26.18   184.5   0.095   1438.3
  55.0   -1.76   -1.76   32.62   26.27   175.9   0.104   1438.6
  60.0   -1.76   -1.76   32.70   26.34   169.1   0.112   1438.8
  65.0   -1.76   -1.76   32.75   26.37   165.8   0.121   1438.9
  70.0   -1.76   -1.76   32.79   26.41   162.3   0.129   1439.0
  80.0   -1.75   -1.75   32.87   26.47   156.0   0.145   1439.4
  90.0   -1.68   -1.69   33.17   26.71   133.3   0.160   1440.3
 100.0   -1.61   -1.61   33.50   26.98   107.8   0.172   1441.3
 110.0   -1.55   -1.56   33.82   27.23    84.0   0.182   1442.1
 120.0   -1.50   -1.50   34.02   27.40    68.2   0.189   1442.9
 130.0   -1.40   -1.41   34.18   27.52    56.4   0.196   1443.7
 140.0   -1.31   -1.31   34.26   27.58    50.8   0.201   1444.4
 150.0   -1.19   -1.19   34.33   27.64    45.7   0.206   1445.2
 160.0   -0.99   -0.99   34.40   27.68    41.3   0.210   1446.4
 170.0   -0.83   -0.84   34.44   27.72    38.3   0.214   1447.4
 180.0   -0.80   -0.81   34.49   27.75    35.1   0.218   1447.8
 190.0   -0.57   -0.58   34.53   27.78    32.6   0.221   1449.0
 200.0   -0.31   -0.32   34.58   27.80    30.2   0.225   1450.5
 210.0   -0.22   -0.23   34.62   27.83    27.5   0.227   1451.1
 220.0   -0.09   -0.10   34.66   27.86    25.4   0.230   1452.0
 230.0    0.12    0.12   34.70   27.88    23.3   0.233   1453.2
 240.0    0.22    0.21   34.74   27.90    21.1   0.235   1453.8
 250.0    0.33    0.32   34.78   27.93    18.8   0.237   1454.5
 260.0    0.42    0.41   34.81   27.95    17.2   0.239   1455.1
 270.0    0.37    0.36   34.80   27.95    17.2   0.240   1455.1
 280.0    0.44    0.43   34.82   27.96    16.0   0.242   1455.6
 290.0    0.48    0.47   34.84   27.97    14.8   0.244   1456.0
 300.0    0.55    0.53   34.86   27.98    14.2   0.245   1456.4
 310.0    0.55    0.54   34.85   27.98    14.6   0.247   1456.6
 320.0    0.57    0.55   34.86   27.98    14.0   0.248   1456.9
 330.0    0.58    0.57   34.87   27.99    13.8   0.249   1457.1
 340.0    0.63    0.62   34.88   27.99    13.4   0.251   1457.5
 350.0    0.67    0.65   34.88   28.00    13.0   0.252   1457.9
 370.0    0.72    0.70   34.89   28.00    12.7   0.255   1458.4
 390.0    0.68    0.67   34.90   28.01    12.1   0.257   1458.6
 410.0    0.65    0.63   34.90   28.01    11.9   0.260   1458.8
 430.0    0.63    0.61   34.90   28.01    11.6   0.262   1459.0
 450.0    0.61    0.59   34.91   28.02    10.8   0.264   1459.3
 470.0    0.54    0.52   34.91   28.02    10.7   0.266   1459.3
 490.0    0.48    0.46   34.91   28.03     9.6   0.268   1459.4
 510.0    0.41    0.39   34.91   28.03     9.8   0.270   1459.4
 530.0    0.37    0.34   34.91   28.03     9.5   0.272   1459.5
 550.0    0.29    0.27   34.91   28.04     8.7   0.274   1459.5
 570.0    0.27    0.25   34.92   28.04     8.1   0.276   1459.8
 590.0    0.25    0.22   34.91   28.04     8.4   0.278   1460.0
 610.0    0.22    0.19   34.91   28.04     8.1   0.279   1460.2
 630.0    0.18    0.15   34.91   28.05     7.6   0.281   1460.3
 650.0    0.13    0.10   34.91   28.05     7.5   0.282   1460.5
 670.0    0.10    0.07   34.91   28.05     7.6   0.284   1460.6
 690.0    0.06    0.03   34.91   28.05     7.1   0.285   1460.8

                        DEPTH       TEMP.       SALIN

      BOT NUM = 1         3.4       -1.76       32.45
      BOT NUM = 2        40.2       -1.78       32.46
      BOT NUM = 3       384.5        0.70       34.89
      BOT NUM = 4       702.6        0.04       34.91
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LAT = 83.6941N LNG =   6.7673W LTER =      0. LGER =     0.
AIR TEMP = -15.1 BAROM = 1024.5 WIND = 346.0 SPEED =    8.4

DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

  0.0   -1.75   -1.75   32.14   25.88   212.8   0.000   1437.0
  3.0   -1.75   -1.75   32.14   25.88   212.7   0.006   1437.1
  5.0   -1.75   -1.75   32.15   25.89   212.3   0.011   1437.1
 10.0   -1.75   -1.75   32.14   25.88   213.2   0.021   1437.2
 15.0   -1.75   -1.75   32.15   25.89   211.7   0.032   1437.3
 20.0   -1.75   -1.75   32.19   25.92   208.8   0.043   1437.5
 25.0   -1.76   -1.76   32.28   25.99   202.3   0.053   1437.6
 30.0   -1.75   -1.75   32.32   26.03   198.7   0.063   1437.8
 35.0   -1.76   -1.76   32.44   26.12   189.4   0.073   1438.0
 40.0   -1.75   -1.75   32.49   26.16   186.0   0.082   1438.2
 45.0   -1.74   -1.74   32.51   26.18   184.4   0.092   1438.4
 50.0   -1.73   -1.73   32.53   26.20   182.2   0.101   1438.5
 55.0   -1.72   -1.72   32.62   26.27   175.9   0.110   1438.8
 60.0   -1.72   -1.72   32.66   26.30   172.7   0.119   1438.9
 65.0   -1.72   -1.72   32.70   26.33   169.4   0.127   1439.0
 70.0   -1.71   -1.71   32.78   26.39   163.7   0.136   1439.3
 80.0   -1.70   -1.70   33.02   26.60   144.4   0.151   1439.8
 90.0   -1.63   -1.63   33.32   26.83   121.7   0.165   1440.8
100.0   -1.60   -1.60   33.58   27.05   101.6   0.176   1441.4
110.0   -1.57   -1.57   33.83   27.24    82.8   0.185   1442.1
120.0   -1.49   -1.50   34.05   27.42    66.4   0.193   1442.9
130.0   -1.41   -1.41   34.17   27.52    57.0   0.199   1443.7
140.0   -1.31   -1.32   34.25   27.58    51.3   0.204   1444.4
150.0   -1.16   -1.16   34.34   27.64    45.0   0.209   1445.4
160.0   -1.04   -1.05   34.39   27.68    41.3   0.214   1446.2
170.0   -0.92   -0.93   34.44   27.72    38.2   0.218   1447.0
180.0   -0.76   -0.76   34.49   27.75    34.7   0.221   1448.0
190.0   -0.57   -0.57   34.54   27.78    32.0   0.225   1449.1
200.0   -0.33   -0.34   34.59   27.81    29.2   0.228   1450.4
210.0   -0.20   -0.21   34.63   27.84    27.1   0.231   1451.2
220.0   -0.02   -0.03   34.67   27.86    24.9   0.233   1452.3
230.0    0.11    0.10   34.71   27.88    22.8   0.236   1453.1
240.0    0.22    0.21   34.75   27.91    20.5   0.238   1453.8
250.0    0.35    0.34   34.78   27.93    18.4   0.240   1454.6
260.0    0.38    0.37   34.80   27.95    17.2   0.242   1455.0
270.0    0.35    0.34   34.80   27.95    17.2   0.243   1455.0
280.0    0.38    0.37   34.81   27.95    16.6   0.245   1455.3
290.0    0.52    0.51   34.84   27.97    15.4   0.247   1456.2
300.0    0.61    0.59   34.87   27.98    14.0   0.248   1456.7
310.0    0.61    0.60   34.87   27.98    13.9   0.250   1456.9
320.0    0.60    0.58   34.86   27.98    14.2   0.251   1457.0
330.0    0.63    0.61   34.87   27.98    13.9   0.252   1457.3
340.0    0.67    0.66   34.88   27.99    13.1   0.254   1457.7
350.0    0.70    0.69   34.88   27.99    13.3   0.255   1458.0
370.0    0.76    0.74   34.90   28.00    12.7   0.258   1458.6
390.0    0.74    0.72   34.90   28.00    12.3   0.260   1458.8
410.0    0.70    0.68   34.90   28.01    12.1   0.263   1459.0
430.0    0.65    0.63   34.91   28.01    11.4   0.265   1459.2
450.0    0.65    0.63   34.92   28.02    10.7   0.267   1459.5
470.0    0.63    0.61   34.92   28.02    10.4   0.270   1459.7
490.0    0.58    0.56   34.91   28.02    10.4   0.272   1459.8
510.0    0.51    0.49   34.92   28.03     9.6   0.274   1459.8
530.0    0.44    0.41   34.91   28.03     9.4   0.276   1459.8
550.0    0.39    0.37   34.92   28.04     8.8   0.277   1460.0
570.0    0.34    0.31   34.91   28.04     9.0   0.279   1460.1
590.0    0.28    0.26   34.91   28.04     8.3   0.281   1460.1
610.0    0.20    0.18   34.90   28.04     8.6   0.283   1460.1
630.0    0.17    0.14   34.91   28.04     8.1   0.284   1460.3
650.0    0.12    0.10   34.91   28.05     7.8   0.286   1460.4
670.0    0.09    0.06   34.92   28.06     6.7   0.287   1460.6
690.0    0.07    0.04   34.90   28.05     7.7   0.289   1460.8

                       DEPTH       TEMP.       SALIN
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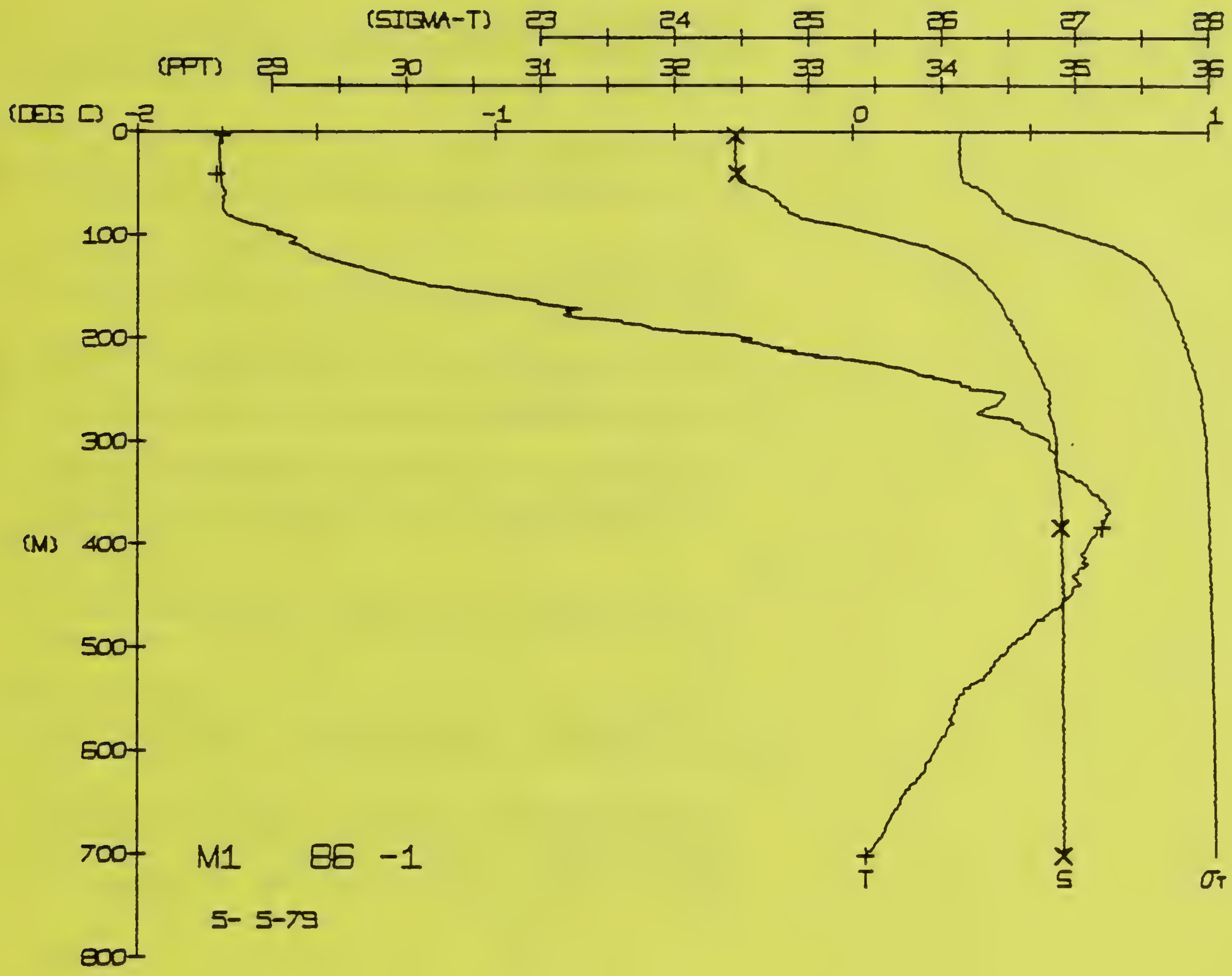
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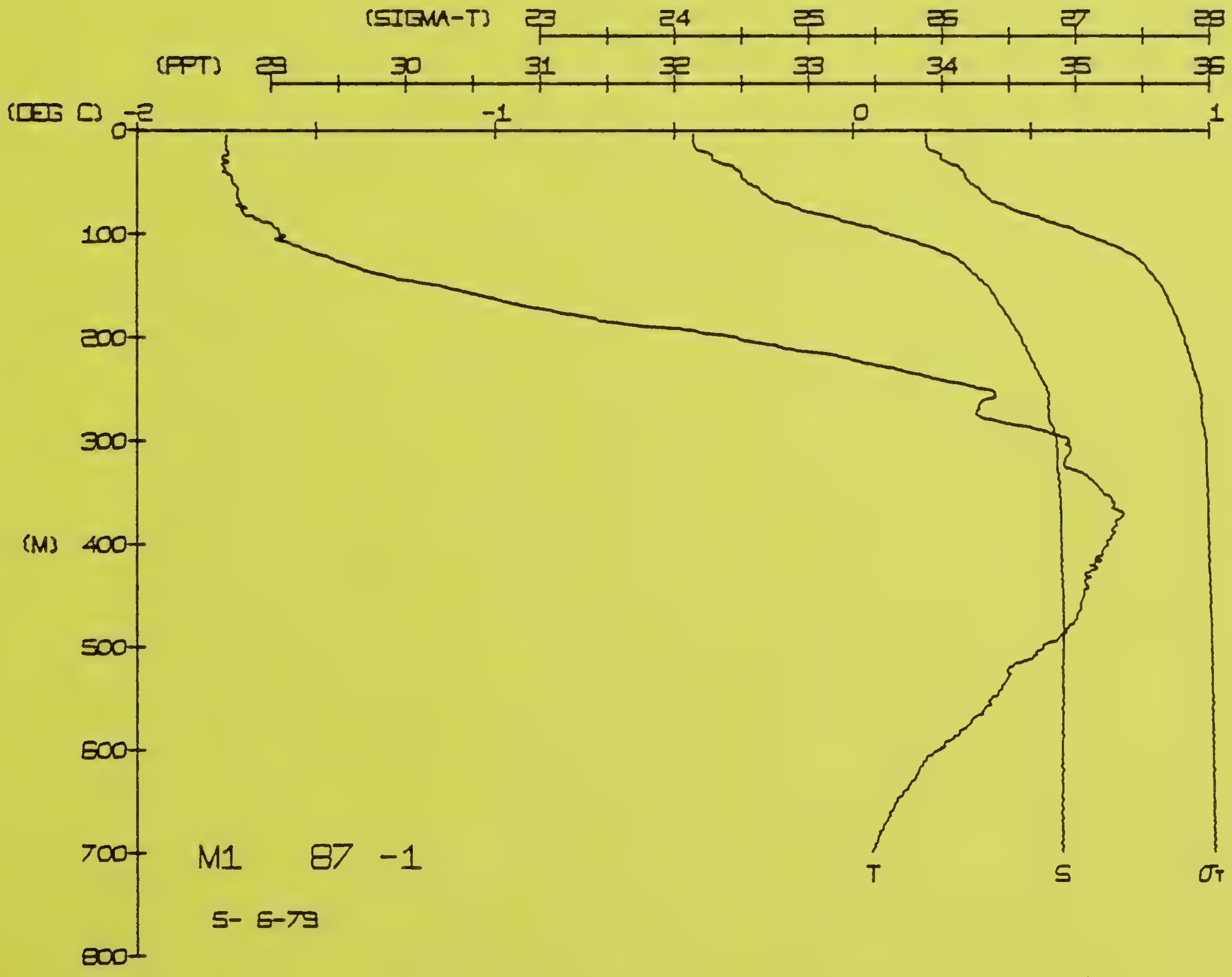
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(PPT) 29 30 31 32 33 34 35 36
(DEG C) -2 -1 0 1
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200
300
(M) 400
500
600
700
800
M1 87 -1
5- 6-79
T
S
σT

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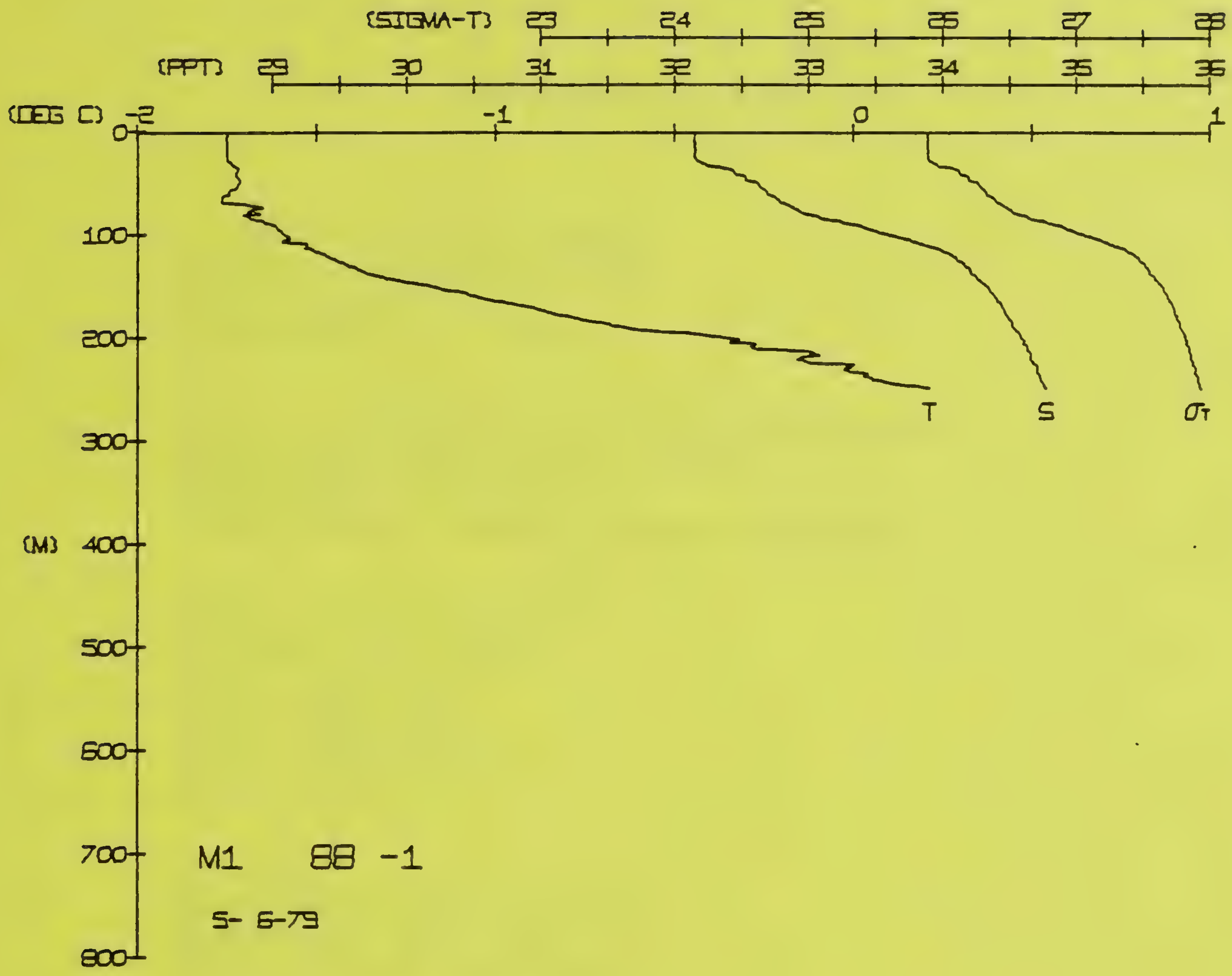
LAT = 83.6826N LNG =   6.7874W LTER =      1. LGER =      2.
AIR TEMP =    0.0 BAROM = 1026.0 WIND =    0.0 SPEED =   0.0

 DEPTH    TEMP   PTEMP   SALIN   SIG T   SPVOL   DYNHT   SOUND

   0.0   -1.75   -1.75   32.15   25.89   211.9   0.000   1437.0
   3.1   -1.75   -1.75   32.15   25.89   211.9   0.007   1437.1
   5.0   -1.75   -1.75   32.15   25.89   212.3   0.011   1437.1
  10.0   -1.75   -1.75   32.15   25.89   212.3   0.021   1437.2
  15.0   -1.75   -1.75   32.15   25.89   212.2   0.032   1437.3
  20.0   -1.75   -1.75   32.15   25.89   212.0   0.043   1437.4
  25.0   -1.75   -1.75   32.15   25.89   212.0   0.053   1437.5
  30.0   -1.74   -1.74   32.19   25.92   208.7   0.064   1437.6
  35.0   -1.73   -1.73   32.29   26.00   201.1   0.074   1437.9
  40.0   -1.72   -1.72   32.45   26.13   189.1   0.084   1438.2
  45.0   -1.72   -1.72   32.53   26.19   183.0   0.094   1438.4
  50.0   -1.72   -1.72   32.61   26.26   176.3   0.103   1438.7
  55.0   -1.72   -1.72   32.64   26.29   173.7   0.111   1438.8
  60.0   -1.75   -1.75   32.69   26.33   170.2   0.120   1438.8
  65.0   -1.76   -1.76   32.76   26.38   165.0   0.128   1438.9
  70.0   -1.76   -1.76   32.82   26.43   160.3   0.137   1439.1
  80.0   -1.66   -1.66   32.96   26.54   149.2   0.152   1439.9
  90.0   -1.63   -1.64   33.31   26.82   123.0   0.166   1440.7
 100.0   -1.59   -1.60   33.58   27.04   102.2   0.177   1441.4
 110.0   -1.53   -1.53   33.85   27.26    81.2   0.187   1442.3
 120.0   -1.48   -1.48   34.06   27.43    65.5   0.194   1443.0
 130.0   -1.42   -1.42   34.16   27.51    57.9   0.200   1443.6
 140.0   -1.34   -1.35   34.24   27.57    52.3   0.206   1444.2
 150.0   -1.19   -1.20   34.32   27.63    46.1   0.211   1445.2
 160.0   -1.06   -1.07   34.39   27.68    41.5   0.215   1446.1
 170.0   -0.92   -0.93   34.44   27.72    38.0   0.219   1447.0
 180.0   -0.80   -0.80   34.48   27.75    35.3   0.223   1447.8
 190.0   -0.65   -0.66   34.53   27.78    32.7   0.226   1448.7
 200.0   -0.37   -0.38   34.59   27.81    29.2   0.229   1450.2
 210.0   -0.30   -0.30   34.63   27.84    26.6   0.232   1450.8
 220.0   -0.15   -0.16   34.67   27.87    24.5   0.235   1451.7
 230.0   -0.02   -0.03   34.70   27.89    22.3   0.237   1452.5
 240.0    0.05    0.04   34.73   27.91    20.8   0.239   1453.0
 250.0    0.21    0.20   34.77   27.93    18.5   0.241   1454.0
 250.3    0.22    0.21   34.77   27.93    18.6   0.241   1454.0

                         DEPTH      TEMP.      SALIN
```


(SIGMA-T)
23
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18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Fram Strait, conductivity, temperature, STD profiles

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

From April 29, 1979 to May 6, 1979 a total of 88 casts were made with a CTD (Conductivity, Temperature and Depth) instrument at the drifting ice station Fram I. Profiles were taken at least twice a day from the surface to 700 m and at more closely spaced intervals during special phases of the experiment. A separate helicopter C/STD survey was also conducted during the experiment, and the resulting data were reported separately.

Data obtained from the camp-based Plessey 9040 CTD were simultaneously recorded digitally on magnetic tape and on alalog charts. Profile data from

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20.

the digital tapes were smoothed using a running average. Response time of the temperature sensor was corrected for thermal lag by varying a lag constant (τ) until descending and ascending parts of the cast on a T-S diagram were nearly congruent. No lag correction was applied to the conductivity data because of the rapid response time of the conductivity cell. A small drift that occurred when both sensors were stopped for bottle sampling was also taken into account during data reduction.

Static calibration of the temperature, conductivity and depth sensors was provided by bottle and reversing thermometer data. Least squares, best-fit polynomials, whose parameters were temperature (T), conductivity (C) and depth (D), converted the observed data to final data.

Standard level listings of temperature, potential temperature, salinity, sigma-t, specific volume anomaly, dynamic height and sound velocity are given for each cast along with plotted profiles of temperature, salinity and sigma-t. Nested profiles of temperature and salinity are also provided.

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